INDEX TO THE
BULLETIN OF THE PAN AMERICAN UNION

Vol. XXXVII Nos. 238-243

[The index to illustrations will be found on p. LIV.]

Page.

ADDRESS, NOTABLE, BY PRESIDENT WILSON 684
ADDRESSES BY THE MINISTER FROM PARAGUAY 543
AGRICULTURAL DEVELOPMENT IN PANAMA 469
ANCIENT RUINS OF TIAHUANACU, THE 513
ARCHIVES, THE MEXICAN FOREIGN OFFICE 657
ARGENTINA:
- Agriculture—
  - Agricultural station, Province of Salta 929
  - Message of President 289
  - Museum established in Buenos Aires 439
- Alfalfa, area sown in 289
- A local appreciation of Argentina 568
- Arbitration Court at The Hague, appointment of members to the Permanent 600
- Argentine brewing barley, and future of malt exportation to Argentina 716
- Artesian water found at Guemes 599
- Banks, subscribed capital of 754
- Boundaries of 289
- Brewery in Argentina, a thriving 714
- Budgets—
  - 1913 600
  - Proposed expenses for 1914 928
- Buenos Aires—
  - Buenos Aires Herald 578
  - Buenos Aires Standard 578
  - Buenos Aires to Valparaiso from a car window 714
  - Improvements in 870
  - Population 290
  - Revenues, 1913 290
  - Statue of George Washington in 254
  - Subways: La Ilustracion Sud-Americana 395
- Camels imported for service 755
- Canals opened for traffic 438
- Casares, Sr. Don Miguel F 72
- Cattle at stock show 928
- Census of the Republic to be taken May, 1914 929
- Cereals—
  - Cereal growing in 725
  - Exports, first quarter, 1913 290
- Children's Congress, First International 928
- College of Commerce at Buenos Aires University 225

ARGENTINA—Continued. Page.
Colonization, agricultural 754
Commerce—
College of Commerce, Buenos Aires University 225
Commerce of the Argentine Republic for 1912 117
Commercial congress, first, second, and third 289
Foreign, 1913, first quarter 439
Foreign, first half, 1913 754
Cotton, Province of Cordoba 290
Exports—
Cereals, first quarter, 1913 290
First quarter, 1913 599
Frozen hares 290
Hospital, naval, to be constructed in Buenos Aires 439
Hymn, National 44
Ice and refrigeration 574
Imports—
First quarter, 1913 599
Paper and cardboard imported into 599
Irrigation project, Upper Negro River 600
Irrigation reservoir to be constructed 439
L'Amérique Latine—République Argentine 405
L'Argentine telle qu'elle est (Argentina as it is) 405
La Vie Internationale 725
Legation at Washington, appropriation for 599
Live stock 289
Los Aborigines de la Republica Argentina 730
Meats, frozen and chilled 438
Mercurio (of Barcelona) 867
Message of the President 289
Mines in Province of Catamarca 754
Money-order convention between Costa Rica and Argentina 290
Naturalized foreigners 439
Naval cadets visit the United States 88
Oranges and mandarins 599
Ortiz de Rozas, Sr. Don Juan Manuel 690
Outlook, The 574
Paper and cardboard imported into 599
Park, National Southern 600
Petroleum—
Decree regulating exploration and exploitation of Rivadavia deposits 439
Deposit found in Rivadavia oil fields 928
Exploitation of wells in Comodoro Rivadavia 143
Population of Buenos Aires, April, 1913 290
Professions, rule governing foreigners in practicing their 600
Railways—
Anniversary, fiftieth, of concession to William Wheelwright 289
Buenos Aires Great Southern and the Buenos Aires Great Western 754
Government, length of 289
Ferryboat train service between Posadas, Argentina, and Villa Encarnacion, Paraguay 599
Salta to Pacific coast of Chile, line to be constructed from 290

ARGENTINA—Continued.
Railways—Continued. Page.
San Antonio to Lake Nahuel Huapi, plan to construct line from..... 438
Southern Railway plans branch line..... 439
State railways..... 928
Revenues of the municipality of Buenos Aires..... 290
Rifle teams, the Argentine and Peruvian..... 662
"Rivadavia," Argentina's dreadnought..... 681
Schools—
Aviculture, State of Entre Rios..... 928
Census of 1912..... 928
Stamp-law tariffs..... 290
Statue of Gen. José de San Martin to be erected..... 754
Statue in honor of President Avellaneda unveiled..... 439
Steamers, turbine, ordered..... 754
Steamships, new..... 754
Stock fair..... 599
Sugar—
Mills..... 754
Production in Province of Tucuman..... 754
Tariffs, stamp law..... 290
Telegraphs—
Letter service between Great Britain and Argentina..... 290
Wireless installations on vessels..... 928
Tin ore discovered in Province of Catamarca..... 754
Tobacco—
Distributed to farmers in Province of Corrientes and Misiones..... 599
Province of Cordoba..... 290
Tunnel, subfluvial, under River Plate, plan for..... 438
Twentieth century impressions of Argentina: Its history, people, commerce, industries, and resources..... 726
Un Lago de Sal..... 725
Vessels, law concerning wireless installations on..... 928
Victoria, Gen. Benjamin..... 64
Villanueva, Dr. Benito, to visit the United States..... 697
Wheelwright, William, railway concession, fiftieth anniversary of..... 289
ARGENTINA'S DREADNAUGHT "RIVADAVIA"..... 681
ARGENTINE AND PERUVIAN RIFLE TEAMS..... 662
AUTOMOBILE IN SOUTH AMERICA, THE..... 327
BATTLE OF LAKE ERIE, A YOUNG HERO OF THE..... 235
BOLIVIA:
Across Titicaca, with a glimpse of Bolivia..... 563
Alpaca and Vicuna..... 108
American Institute at La Paz, enlargement of..... 601
Andes, across the..... 264
Anniversary, one hundredth, of first newspaper..... 440
Banks—
Bank of the Bolivian Nation..... 439
Bank of the Nation, increase of capital..... 930
National Bank, capital of..... 144
Bismuth, exports of, 1912..... 144

BOLIVIA—Continued.
Boundaries— Page.
Argentina, survey with 755
Brazilian 755
Paraguay, treaty with 930
Peru, survey with 756
Budget for 1914 929
Calderón, Sr. Don Ignacio: Notable speech 49
Cocaine industry 601
Colonias, drawing of the Territory of 291
Commerce, foreign, 1912 756
Copper exported from Bolivia in 1912 144
Dental college founded in La Paz 291
Electric light plant in Coroico, installation of 144
Exhibit in Belgium 536
Exports—
Bismuth, 1912 144
Copper, 1912 144
Merchandise shipped from New York to Bolivia 440, 144
New York to Bolivia, June and July, 1913 600
Rubber, refined, 1912 602
Extradition treaty to be negotiated with Ecuador 144
Factory of silk, woolen, and cotton goods 930
Frontier work on the Bolivia-Brazil boundary 571
Geographic Society of La Paz, president and secretary of 440
La Bolivia 718
La Paz, picturesque, the capital of Bolivia 209
Lemoine, M. J. de, consul general in Brussels 695
Library, minister of public instruction authorizes purchase of Ruck 440
Loans—
Casius Clay proposes loan to city of La Paz 930
Credit Mobilier loan 756
Morgan loan 756
Public improvements 601
Quiaca to Tupiza Railway loan 756
Message of retiring President 755
Military college enlarged 756
Mines and mining—
Minerals of Bolivia 714
Salt mines 440
Tin mines of Sr. Simon I. Patiño 601
Panama-Pacific Exposition, exhibits for 930
Paraguay establishes legation at La Paz 756
Population of Santa Cruz 601
Publications: One hundredth anniversary of first newspaper 439
Railways—
Arica to Alto de La Paz inaugurated 755
Arica to La Paz, transfer of Bolivian section by Government of Chile 290
Cochabamba to Cliza 144
Convention with Argentina 755
Corocoro, branch line from 144
Loan authorized for construction of new 144
Oruro Railway, terminal station 144

BOLIVIA—Continued.
Railways—Continued. Page.
Passes issued to Government officials.... 930
Porto Velho to Guayaramerin.... 755
Rubber—
Exports of refined rubber, 1912.... 602
Export tax collected at Xipamano.... 291
Salt mines.... 440
Schools—
American Institute, La Paz.... 291
Arts.... 756
Commerce.... 756
Mines.... 756
Telegraph school, national, La Paz.... 290
Veterinary and agronomic.... 756
Society of Fine Arts.... 144
Tagua.... 440
Telegraphs—
Inquisivi and Ayopaya, line completed between.... 601
Lines constructed during 1912.... 756
National school, La Paz.... 290
Total length.... 601
Wireless installations, contract for.... 929
Wireless stations acquired.... 756
Wireless stations to be erected.... 600
Tiahunacu, Guia General Ilustrada de.... 730
Tin Co., Ilallagua.... 290
Tin mines of Sr. Simon I. Patiño.... 601
Tramway to be established in La Paz.... 291
Treaties—
Ecuador, treaty of amity between Bolivia and.... 611
Ecuador, extradition treaty to be negotiated with.... 144
Uruguayan legation established at La Paz.... 440
Vegetable ivory.... 440
Wolfram.... 144
BOLIVIAN EXHIBIT IN BELGIUM, THE.... 536
BOOK NOTES:
Alcance al Diario de Bucaramanga.... 732
Almanach de Gotha, 1913.... 110
American Exporter's Export Trade Directory.... 110
Anales de la Biblioteca.... 731
Anales de la Biblioteca, Tomo VII.... 732
Anales del Correo de el Salvador.... 731
Anales do Congreso Comercial, Industrial e Agricola.... 732
Andes, across the.... 265
Annuaire Généalogique, Diplomatique et Statistique.... 110
Annuaire du Mouvement Pacifiste.... 731
Annual Register, The.... 581
Annuario Penquista.... 732
Argentina—
Los Aborigines de la Republica.... 730
Twentieth century impression of Argentina: Its history, people, commerce, industries, and resources.... 726

Book Notes—Continued. Page.
As old as the moon 265
Beginnings of Spanish-American diplomacy, the 403
Bibliografia Cubana del Siglo XIX 731
Bibliographie Trimestrielle de Droit International 404
Boletin del Cuerpo de Ingenieros de Minas del Peru 731
Bolivar y el Gen. San Martin 732
British Guiana, report on the gold, diamond, and forest industries of 267
California, the story of 727
Chile—
Modern Chile 580
The Republic of Chile 403
Cirugia Politica 580
Coconuts: The consols of the East 400
Coffee 267
Colombia 729
Columbus, the secret of 267
Columbus and his predecessors 265
Commercial laws of the world, the 110
Conquest of New Granada, the 266
Conquest of New Spain, the 267
Costa Rica, history of the discovery and conquest of 727
Crusoe's Island 266
De Orbe Novo 266
De Vasectomia Duplici Necnon de Matrimonio Mulieris Excisae 731
Diamantes Sud-Americanos 730
Diccionario Bio-Bibliographico Cearense 731
Diccionario Geografica del Uruguay 731
Dictionary of Railway Terms 111
Dictionary, pocket: Miskito-English-Spanish and English Miskito-Spanish 404
Discursos e conferencias 731
Don Mauro Fernandez y el Problema Escolar Costarricense 731
Educación Nacional: Trabajos de la Comisión Especial de Instrucción 732
El Cielo y sus Maravillas y el Inferno 581
El Hijo del Corsario Rojo 732
El Papel Moneda 732
En Amérique Latine 729
English for Latin-Americans 111
Esboço de um Projecto de Lei Sobre os Indios do Brasil 730
España y America, 1812–1912 580
Export Manual 580
Export Shipping Guide 110
Exporters' Encyclopædia 1913 110
Fryer's East India and Persia 267
German publications—
Die Kospalme und ihre Kultur 112
Geschichte Südamerikas 112
Indianerleben 397
Kostarika 112
Peru 112
Südamerikanische Prähistorische Tempel und Gottheiten 113
Ulrich Schmidel 112
Guatemala 731

BOOK NOTES—Continued. Page.
Guayaquil en la Mano 731
Guia General Ilustrada de Tiahunacu 730
Hague conferences, the two 581
Hammond's Home and Office Atlas of the World 111
Ideas y Narraciones 732
Informe del Director Gral de Correos y Telégrafos 732
International Mind, The 399
Kelly's directory of merchants, manufacturers, and shippers of the United States, Canada, and the States of Central and South America 111
L'Amérique Latine-République Argentine 405
L'Argentine telle qu'elle est (Argentina as it is) 405
La Colombiada 731
La Cordillera Venezolana de los Andes 731
La Cosecha Humana 731
La Estadística en Nuestra Administración 731
La Guerra de los Balkanes 732
La Mala Vida en Barcelona 731
La Nacionalidad en la Relaciones Internacionales 730
Land, the, of the peaks and the pampas 730
La Nueva Filosofia del Dinero 732
La Personalidad Internacional de España 732
Las Escuelas Militares en Francia 732
Las Mejores Poesias Liricas de la Langua Castellana 580
Las Publicaciones del Museo Nacional 732
Latin America: Its rise and progress 403
Latin-American universities and special schools 402
La Vida Que Pasa 730
Lecciones de Retórica y Literatura 732
Le Droit Civil en Amérique 267
Lords of the devil's paradise, the 267
Los Indios del Brazil 732
Los Marañones 732
Map of Brazil 266
Memoirs and correspondence of Charles Steedman, rear admiral, United States Navy, with autobiography and private journals 404
Mexico—
A busy time in Mexico 581
Ancient Mexico reviewed by a modern traveler 113
Coming Mexico, the 113
Cyanide, practice in 113
Escuela Internacional de Arqueologia y Etnologia Americanas año Escuelar de 1911 à 1912 268
Mystery of the Barranca 113
National library of Mexico 113
New trails of Mexico 266
Monroïsme? 405
Monuments of the world, the esquestrian 267
Newark-made goods 579
Obed Hussey 266
Pacific, the new 265
Páginas de Verad, la Ultima Guerra Ecuatoriana 731
Panama, glimpses of Panama and of the canal 403

Book Notes—Continued. Page.
"Panama past and present" 398
Zone policeman 88 399
Panama Canal—
Great Britain and the 401
Our canal in Panama 579
Panama Canal: Its possible effect on the Central American Republics .. 579
Panama Canal conflict, the 367
Peace Monument of America, the 109
Petroleum industry in Peru, the present and future state of the 268
Philippine coconut industry 267
Pitman's commercial grammar series—Spanish 111
Pitman's Spanish commercial correspondence 111
Pomarrosas 731
Proceedings of third national conference American Society for Judicial Settlement of International Disputes 581
Quito, the war of 265
Rafagas Politicas 731
Railways—
Earning power of railroads, the 581
Sayings and writings about the railways 580
Resumen de la Historia de Santo Domingo 731
Retrospection 265
Revolucion Pacifica 731
Rubber Trade Directory of the World 110
Scenas e Perfis 731
Science, archaeology, and geography—
Birds, new, from the Orinoco region and from Trinidad 113
Birds from Panama 114
Diptera from Panama 114
Exploraçao do Rio Parana 114
Lake Parinacochas 114
Mammals from eastern Panama, new 114
Natural history, first student of American 114
New decapod crustaceans from Panama 114
Sawflies from Panama 114
Serpents, Butantan, Brazil, Garden of 113
Shells collected in Peru, land 114
Rubelzul cotton from Guatemala 113
Vitcos, the last Inca capital 114
Shipping World Year Book, The 111
Shorthand textbooks—
Clave de la Taquigrafía Españala 111
Taquigrafía Española 111
Taquigrafía Fonética Gregg-Pani 111
Silviculture in the Tropics 401
South America—
A bibliography of 403
A history of South America, 1854–1904 401
South America 730
Southland of North America 397
Statesman's Year-Book 581
Stock exchange from within 400

BOOK NOTES—Continued. Page.
Suspension de Pagos 732
Telephone statistics of the world 267
Textile fibers, the 581
Through our unknown Southwest 581
Trabajos Selectos 732
Uruguay—
Twentieth century impression of Uruguay: Its history, people, commerce, industries, and resources 728
Venezuela: De Caracas á San Cristobal 580
Venezolano, Teatro Critico 730
Wonders of the world 266
World conscience 728
BOSTON CHAMBER OF COMMERCE DELEGATES, RETURN OF THE 230
BRAZIL:
Academy of medicine, president of 602
Agriculture—
Delegation to agricultural congress, Oklahoma, United States 603
School opened in honor of the anniversary of the independence of the United States of America 292
Superior school opened at Rio de Janeiro 441
Amazon Basin and the Guiana Highlands, Dr. Koch-Grünberg's exploration in the 714
Andes, across the 265
Argentine officials visit Brazilian cities 757
Armored river monitors for Brazil 575
Aviation—
Prize offered by municipality of Sao Paulo 603
School to be established at Sao Paulo 442
Bank, conversion 757
Board of trade established at Hamburg, Germany 603
Bonds, 5 per cent interest-bearing, issued for payment of sanitation and dredging of rivers 292
Boundary treaty with Uruguay approved 930
Brazil as seen by a great writer 725
Campos Sales, Sr. Dr. Manuel Ferraz de 61, 81
Coal market, the Amazon River: How to control it 573
Coconut cultivation 441
Coffee—
Exports, January to July, 1913 756
Exports, 1912, increase in 146
Coins, silver, to be minted 603
Colonizing Co., Brazil Takushoku Kaiska 292
Colony to be established in State of Parana 603
Commerce of Brazil for 1912 736
Commerce, foreign, 1912 145
Congress of economic defense 603, 870
Congress, national, of history of Brazil 849
Congress, national, of instruction 441
Congress of workmen 757
Consulate established at Tripoli 602
Convention, arbitration, with Italy 602
Customs receipts, 1912 292
Customs tariff to be reformed 146

BRAZIL—Continued. Page.
de Moreira, Dr., in Rio de Janeiro 255
Dental congress, first Pan American 90
Diamond, Brazilian, industry 870
Education 145
Espinola, Dr. Manuel José 65
Exports—
1912 145
1913, first seven months of 756
Coffee, 1912, increase in 146
Coffee, January to July, 1913 756
Gold to Europe 602
Rubber, 1912, increase in 146
Rubber, January to July, 1913 756
Expositions—
Appropriation for San Francisco and London Expositions 931
Aviculture, apiculture, floriculture, horticulture, and pomiculture 441
Rubber, Rio de Janeiro 293
Universal exposition to be held in 1922 292
Frontier work on the Bolivia-Brazil boundary 571
Fruits, exportation of 931
Geographic society, Argentine minister elected honorary member of 441
Gold to Europe, exports of 602
Governor and lieutenant governor of State of Maranhao 757
Hospital, marine, inaugurated 441
Immigrants—
Hotel, bids for construction of 293
Japanese 441
Japanese arriving at Santos in 1913 931
Number landing at Rio de Janeiro 757
Number landing at Sao Paulo 292, 441, 757
Imports for first seven months, 1913 756
Live stock, number in State of Maranhao 441
Lloyd Brasileiro Co., liquidation of debt of 757
Loans—
Belem do Para contracts with English syndicate for a loan 603
Bonds issued for payment of 292
Federal Government negotiates loan in London 603
Loan for works to prevent inundations in Rio de Janeiro 757
Map of 266
Maritime convention 931
Medical congress, delegates to 757
Medical and dental inspection in schools 221
Message of President 145
Military college at Rio de Janeiro 502
Mines and mining—
Belgium Tin Mining Co 931
Gold exports to Europe 602
Gold mines discovered in Maranhao 603
Minister to Brussels 757
Monument to Baron do Rio Branco, laying of corner stone 757
Morro Velho, temperatures at the 724
Müller, Dr. Lauro S., to the United States, mission of 175
Naval cadets visit the United States 88

BRAZIL—Continued. Page.
Navy, secretary of 757
Paraguayan tea. *See* Yerba maté.
Pimental, Mr. Barros 757
Population of Rio de Janeiro 292
Portugal delegates formulating treaty of peace and amity with Brazil 293
Publications: Entry of samples sent to exhibit in Spain 292
Railways—
Cost of 145
Kilometers open to traffic 145
Loans negotiated by Madeira-Mamore and the Brazil railways 931
Madeira-Mamore Railroad, geographical aspects of the new 391
Rio Grande to Santa Victoria do Palmar Railway, extension of 931
Tariffs of the Central 29
Receipts, 1911 and 1912 146
Revenues—
Municipality of Rio de Janeiro 756
State of Rio Grande for year 1914 931
Rice, cultivation of, by the Brazil Takushoku Kaiska Colonizing Co 292
Rio de Janeiro—
Hotel, new, to be opened in suburbs 603
Population 292
Rubber—
Exports, January to July, 1913 756
Exports, 1912, increase in 146
Exposition, Rio de Janeiro 293, 930
Protection of industry 757
Rio de Janeiro rubber exhibition 873
Rubber in southern Brazil 108
Taxes, State of Para, reduction of 293
Ruins of a lost city discovered 603
Schools—
Aviation school to be established at Sao Paulo 442
Loan requested for construction of buildings 931
Medical and dental inspection in 221
School population of Rio Grande 931
Superior School of Agriculture and Veterinary Science opened at Rio de Janeiro 441
Secretary of the navy 442
Senate vacancy from State of Sao Paulo filled 603
Statue in honor of Dr. Campos Salles, subscription opened for erection of 442
Steamship service to Brazil, improved 852
Stock fair in Minas Geraes 603
Struggle between Brazil and the Far East 718
Students' association organized 259
Telegraphs—
Marconi Co. to establish stations 757
Wireless stations in operation 602
Time, official 293
Treaties—
Arbitration treaty with Bolivia 602
Extradition treaty with Bolivia 602
Extradition treaty with the United States 602
Treaty of peace and amity with Portugal under formation 293

BRAZIL—Continued. Page.
United States: Tokens of friendship..... 347
Veterinary school, agricultural and..... 292
Wharf, acceptance of bid for construction of..... 930
Yellow fever, State of Amazonas..... 602
Yerba mate—
Annual exports of..... 602
Imports into Berlin exempt from duty..... 931
CALL FOR TENDERS ON CHILEAN RAILWAY SHOP..... 355
CENTRAL AMERICA:
Consular service..... 456
Panama Canal, Central America and the..... 870
South American Journal..... 722
CHILE:
Arica: Plans for breakwater and driveway..... 443
Bank for miners..... 604
Borax deposits, yield of..... 603
Buenos Aires to Valparaiso from a car window..... 714
Circus-theater, Valparaiso..... 442
Coal fields of southern Chile..... 722
Commerce of Chile for 1912..... 876
Commercial commission, consulting..... 146
Congress, first, of industries and commerce..... 442
Copper—
Chuquicamata mines..... 604
Combarbala mining region..... 604
Exports, 1912..... 605
Exports to the United States, 1912..... 294
Tofo iron mines..... 442
Costa de la Vida..... 722
Customs revenues, first nine months, 1913..... 931
Evolucion Historica de las Letras Chilenas..... 870
Exports—
1912..... 603
Copper, 1912..... 605
Copper to the United States, 1912..... 294
Nitrates, 1912..... 604
Nitrate to the United States, 1912..... 294
Silver to the United States, 1912..... 294
Exposition, Panama-Pacific, appropriation requested for..... 294
Gold Mining Co., Rancagua, organized..... 294
Hospital, British North American, Valparaiso..... 758
Imports—
1912..... 603
Valparaiso, 1896 to 1912..... 932
Industrial establishments..... 758
Iron—
Combarbala mining region..... 604
Smelter planned by Brauna & Co. near Palma Station..... 294
Tofo mines..... 442
Map, mining, of the Province of Antofagasta..... 932
Message of President..... 605

CHILE—Continued.
Mines and mining— Page.
Atacama zone 758
Chilean Exploration Co. 293, 604
Combarbala region 604
Copper 442
Copper mines of Chuquicamata 604
Gold Mining Co., Rancagua, organized 294
Iron mines, Tofo 442
Map of Province of Antofagasta 932
Modern Chile 580
Morris, Sr. Maximo Patricio, consul in Vancouver 71
Museum to be established in Valparaiso 443
Nitrates—
Annual exports from provinces of Tarapaca and Antofagasta 758
Exports, 1912 604
Exports to California 932
Exports to the United States, 1912 294
Fields of 714
People, the, of Chile 720
Petroleum—
Ancud, boring discontinued at 294
Magallanes zone, new investigations in 147
Railways—
Antofagasta to Bolivia, branch planned to Mejillones 146
Arica to La Paz—
Rolling stock, delay in 442
Tariff rates for passenger and freight traffic 442
Chuquicamata to Cobija, proposed construction 759
Government railways under construction 146
Loncoche to Villarrica, application to construct railway from 932
Longitudinal Railway, new section opened to traffic 759
Northern Longitudinal authorized to open various sections 604
Osorno to Puerto Montt, cost of first and second class tickets 294
State railways, length of 605
State railways, report of 758
Tenders on Chilean Railway shop, call for 355
Revenues, customs 931
Schools of arts and crafts, Santiago, reorganization of 294
Silver exports to the United States, 1913 294
Statistics of 367
Steamship Co., Austrian, contract ratified 932
Telegraphs—
Wireless stations completed 758
Wireless stations in operation 443, 932
Wireless course established in State university 294
Telephone service, southern Chile 294
Tramways of Punta Arenas to be improved 443
Tuberculosis sanitarium 932
Valparaiso—
Circus theater near completion 442
Museum to be established in 443
Varas, Sr. Carlos, journalist 695

CHILE—Continued.
Water service—
Iquique— Page.
Supply planned for 146
Plan for potable water approved 294
La Ligua, potable supply for 146, 294
Ninhue, inauguration at 146
San Felipe, Tome, and Tacna, supply to be improved at 146
Temuco, completion of reservoir for 294
Valdivia, supply to be improved at 146
Waterworks—
Cauquenes, completion of works for 294
Wharf, steel, to be constructed at Cobija 758
COATS OF ARMS OF THE AMERICAN REPUBLICS. *See* Flags, etc.
COLLEGE OF COMMERCE AT BUENOS AIRES UNIVERSITY 225
COLOMBIA:
Acosta de Samper. Sra. Dona Soledad 60
Agronomic Institute, City of Pasto 444
Aqueducts—
Galan in Santander 147
Medellin to have aqueduct 148
Automobile omnibus service for Medellin 148
Bananas—
Exports, 1912 444
Exports, first quarter, 1913 444
Banks—
Antioquia German Bank, at Medellin, to establish mortgage department 444
Bank of Caldas to be established 759
Bank of issue to be established by Louis Dreyfus & Co., of Paris 759
Industrial bank incorporated at Cartagena 444
Bogota, contract for asphalting 147
Boy Scouts, Bogota 444
Budget of receipts and expenditures of Department of Antioquia, 1913 147
Buenaventura, port of—
Contract for improvement of 443
Sanitary service of 444
Calderon, Dr. Climaco 688
Canalization board 147
Cattle industry of the Llanos 99
Cattle raising near Papayal 933
Census, March, 1912 295
Centenary of independence of Department of Boyaca 933
Clubs—
Marksman's Club, Bogota 147
Coins, national silver 933
Cold-storage plant to be erected by Swift & Co 933
"Colombia" 729
Commerce of Colombia for 1912 748
Congress of Colombian students, third international 703
Congress, National—
Date of opening 444
Officers of 444

COLOMBIA—Continued. Page.
Designates to the Presidency 605
Educational statistics 605
Emerald fields of 718
Expenditures, estimated, 1914 605
Exports—
1912 605
Bananas, 1912 444
Bananas, first quarter, 1913 444
Factory, soap, Bogota 147
Fiscal code 147
Fish—
Itsmina, Choco Territory 147
University of Indiana 147
Flag celebration, first 445
Fluvial Navigation Co., organized at Cali 444
Fluvial Transport Co., organized at Manizales 444
Foreigners in Bogota 444
Granada, the conquest of 266
Holiday, national, March 25, 1914 933
Immigration 605
Imports for 1912 605
Jurists, committee of, department of foreign relations 759
Laws of National Congress 147
Lumber business 933
Maps—
Municipality of Tumaco 147
Patia and Telembi Rivers 760
Message of the President 605
Milling companies, Nevada and Caribe 759
Mines and mining—
Choco Territory 760
Mining and Engineering World 720
Placer mining on the Cauca River 577, 867
Minister resident of Cuba at Bogota 760
Mint at Medellin 605
Mission, progress in a Colombian 873
Mogangui, direct communication with 760
Monument to Juan del Corral 933
Moving picture company organized 933
Navigation, hydroplane 760
Penal colony established in Department of Magdalena 147
Petroleum—
Contract for development of 606
Rules governing discoverers of 147
Population—
Bogota, number of foreigners 295
Official census, 1912 295
Post-office statistics 934
Products, samples on exhibition 444
Railways—
Amaga Railway 760
Antioquia Railway opens station at Copacabana 760

COLOMBIA—Continued.
Railways—Continued. Page.
Bogota to point between Guateque and Villa Pinzon 760
Branch railway to connect Amolaima with the Girardot 934
Nariño and Tamalamque 606
Nemocon to Chiquinquira 606
Pacific Ocean to the Putumayo River, technical study of survey 147
Santa Marta to Tablazo branch line 760
Southern Railway to be extended to Tequedama Falls 148
Tunja to Magdalena River, construction of line from 444
United Fruit Co 760
Revenues—
1912 760
Estimated, 1914 605
River, removal of bar at mouth of the Magdalena 933
San Antonio, automobile service 760
Sanitary service, port of Buenaventura 444
Sanitary station, Puerto Colombia, opened 605
Sanitary service organized by United Fruit Co 760
Schools, number of 605
Slaughterhouse to be erected by Swift & Co 933
Soap factory established at Bogota 147
Seeds, samples on exhibition 444
Steamer "Bucaramanga" placed in public service 933
Südamerikanische Prähistorische Tempel und Gottheiten 113
Sugar plantation inaugurated at Sucre 760
Telegrams, statistics concerning 934
Telegraphy—
Wireless service to be established with New York 147
Wireless station at Cartagena inaugurated 444
Towels, manufacture of 933
Town, new 147
Tramway, central station planned for San Francisco 148
Vegetable ivory 933
Vessel christened "Presidente Restrepo" 444
Wharf, passenger, planned for Calamar 295
COMMERCE OF:
Argentine Republic for 1912 117
Brazil for 1912 736
Chile for 1912 876
Colombia for 1912 748
Costa Rica for 1912 271
Cuba for 1912 896
Dominican Republic for 1912 408
Guatemala for 1912 584
Haiti for 1912 415
Mexico for 1912 418
Paraguay for 1912 277
Salvador for 1912 432
Venezuela for 1912 281
COMMERCIAL CONVENTION IN MOBILE 353
CONGRESS OF STUDENTS, EIGHTH INTERNATIONAL 478
CONSULAR REPORTS, SUBJECT MATTER OF 114, 269, 406, 582, 733, 874

COSTA RICA: Page.
Armed force, maximum to be maintained 446
Automobile transportation service 606
Automobile freight and passenger service 761
Bananas—
Candy Banana Co. organized, San Jose 296
Escocia Banana Co. organized 296
Estrada, district of Limon 295
Exports, 1912 606
Seed imported from Dutch Guiana 149
Bank, Anglo-Costarican, increase of capital of 934
Boxes and tins for fruits admitted free 296
Bridge to be constructed over Toyogres River 607
Budget for fiscal year 1914 760
Cacao, Estrada, district of Limon 295
Central American court of justice, officers of 607
College at Cartago subventioned by Costa Rican Congress 446
Commerce of Costa Rica for 1912 271
Concessions—
Mail and transportation service, renewal of concession for 606
Water from Rosales River 607
Consul adhonorem in Norway, Sr. Oscar Dahl 149
"Costa Rica" 394
Customs receipts, February and January, 1913 296
Customs revenues 761
Dairies, Estrada, district of Limon 296
Dairy and hacienda on slopes of Turrialba Volcano sold 446
El Corozo y la Palma Real 725
Electric-light service—
Limon, bids for construction and exploitation of hydroelectric plant 296
Plant to be erected at Heredia 935
Plant at San Pedro de Poas 935
Siquirres, hydroelectric light and power plant to be installed at 295
Emeralds, Aoyac Valley 446
Estrada, district of Limon—
Industries 295
Population 295
Products 295
Exports—
1912 148
Bananas, 1912 606
Fibers, textile, cultivation and development of 934
Fibrous plants, contract for cultivation of 607
Financial condition of Republic 445
Fruit boxes and tins admitted free 296
Highways—
Government highways 607
National highway to be constructed from Alajuela to crater of Poas volcano 606
History of the discovery and conquest of 727
Hospitals—
Infants' hospital, San Jose 606
Public hospital, Limon 446

COSTA RICA—Continued.
Imports— Page.
1912, message of the President..... 148
School desks..... 149
Kostarika..... 112
Laborers in demand..... 149
La Republica de Costa Rica..... 722
Limon—
Expenditure, 1913..... 149
Receipts, 1913..... 149
Loans—
Limon, municipality of..... 149
Loan made by the Anglo-Costarican Bank to municipality of San Jose.. 446
Magazine, a new..... 934
Mail and transportation service, renewal of concession for..... 606
Mails, transporation of..... 934
Market, municipal, Puntarenas, under construction..... 935
Message of President..... 148
Minister of Foreign Relations of Panama officially received..... 935
Pacific coast region..... 446
Parcel-post service..... 761
Petroleum, exploration and exploitation of..... 934
Pumps, potable centrifugal, postponement of purchase of..... 296
Railways—
Pacific railway, gross receipts and expenditures..... 606
Province of Guanacaste, bill for construction of railway in..... 934
Revenues—
1912..... 445
1913, first nine months..... 934
Theater tax..... 445
Total, January to July, 1913..... 761
Road, paved, from Cartago to San Jose near completion..... 296
Rubber, Estrada, district of Limon..... 295
San Jose, proposal for paving streets of..... 296, 445
Schools—
Desks imported from United States..... 149
Domestic arts, San Jose..... 296
Message of the President..... 148
Steamship service on Pacific coast..... 934
Telephone line completed..... 934
Ulloa, Dr. Juan J..... 691
Wages to laborers increased..... 149
Water, potable, to be supplied districts of Oeste and San Rafael..... 761
Waterworks under construction at Estrada..... 296
COTTON IN THE DOMINICAN REPUBLIC..... 677
CUBA.
Agriculture—
Cuba for the man of moderate means..... 32
"Fomento Pecuario" organization..... 762
Message of President..... 936
Aqueducts—
Guines, construction work suspended..... 609
Remedios and Caibarien, construction authorized..... 297

CUBA—Continued.
Aqueducts—Continued. Page.
Santiago, plans for construction 762
Santiago, contract awarded 297
Asphalt property denounced in the Province of Matanzas 297
Association for the legal protection of workmen 935
Avicultural exposition to be held in Habana 608
Banks—
National bank establishes branch in city of Habana 447
Spanish bank opens branch at Yaguajay 608
Budget, 1912–13 608
Cabinet, personnel of 149
Canalization of the Roque River, extension of concession for the 297
Cattle, bureau established for registration of 150
Coconut disease 608
Commerce—
Commerce of Cuba for 1912 896
Increase in Cuba's foreign trade 718
Compañía de los Puertos contract revoked 762
Consular service, income of 936
Consulate general in New York, receipts for 10 years of 607
Court of Habana, extra chamber created in audiencia of 609
Cremation plant to be inaugurated 608
Currier, Rev. Charles Warren 69
Customhouses, Matanzas, import duties of 150
Electric-light service—
Isabela de Sagua, plant to be installed at 448
Jaruco, application to establish plant at 297
Los Arabes, application to establish plant at 297
Santa Isabel de las Lajas, plant to be established at 150
Exposition, national, to celebrate opening of Panama Canal 608
Exposition, national, to be held in Habana 761
Factory, La Fábrica de Papel de la Habana 714
Farming: Cuba for the man of moderate means 32
Financial condition of Republic 936
Financial status of treasury, message of President 296
Foreign claims 935
Habana—
Academy of Medical, Natural and Physical Sciences, awards prize 447
Diario Autentico del Sitio de la 867
Expenditures, 1913–14 297
Revenues, 1913–14 297
Horses, bureau established for registration of 150
Hospital, civil, to be established at Guantanamo 609
Ice factory inaugurated at Batabano 609
Immigration, plans for increasing 936
Judiciary system, President urges reform of 936
Lectures on tropical diseases by Dr. Agramonte 608
Loan advised by President 936
Loan for sewering and paving work 608
Maine, the, appropriation for construction of monument to 150
Message of President 149, 296, 935
Microcycas calacoma, a rare plant found in Cuba 725

CUBA—Continued.
Mines and mining— Page.
Copper mine at Corral Nueva.... 297
Iron property denounced in Province of Matanzas.... 297
Vast ore deposits of Cuba.... 720
Minister to the United States, reception of.... 43
Monuments in honor of José Marti.... 297
Official Gazette, bureau of.... 448
Opium, protocol, international, signed.... 150
Parcels post—
Recommendation in President's message.... 936
Treaty with Costa Rica, England, Belgium, and Venezuela.... 936
Peace Congress, Universal.... 936
Penal code, revision of.... 762
Pharmaceutical rules.... 762
Police, chief of.... 608
Port board, rules governing.... 608
Port Co. concession, annulment of.... 935
President Menocal's summer residence.... 447
Railways—
Caibarien to Yaguajal and Mayajugua, opened to traffic.... 447
Cardenas to Cochinos Bay, line to be constructed from.... 447
Cuban Central, extension of.... 608
Guantanamo to Baracoa, plans and estimates to be submitted.... 150
Habana and Cienfuegos, express service inaugurated between.... 447
North American Sugar Co.... 447
Sierra Morena to Coralillo, extension of.... 608
Van Horne and his Cuban railway.... 866
Western railway to the Port of Arroyos de Mantua, probable extension of.... 447
Revenues, Habana, 1913-14.... 297
Riverside.... 718
Roque River, extension of concession for canalization of.... 297
Sanitarium, tuberculosis, plans for establishing a.... 608
Schools—
Agricultural school, Santiago.... 297
Matanzas Agricultural School.... 762
Secret services allowed President, discontinuance of.... 296
Sewering and paving work.... 608
Shooting range purchased by Government.... 762
Statue in honor of Jose Maria Heredia to be unveiled in Santiago.... 447
Sugar—
Mill under construction at Abarca.... 150
Mill to be erected near Santiago.... 448
Mills, erection of.... 762
Supreme court, justice of.... 150
Tariff of Cuba.... 936
Telegraphs—
Government lines, appropriation requested for repair of.... 936
Wireless-telegraph treaty with the United States.... 448
Telephone service—
Government lines.... 297
Long-distance communications.... 609

CUBA—Continued.
Treaties— Page.
Commercial 936
Parcels-post 936
Wireless-telegraph treaty with the United States 448
Tropical diseases 608
Tuberculosis sanitarium 608
Zapata Swamp, drainage of 447
Zoological and botanical garden to be established in Habana 448
CUBA FOR THE MAN OF MODERATE MEANS 32
DENTAL INSPECTION IN BRAZILIAN SCHOOLS, MEDICAL AND 221
DINNER BY MINISTER OF DOMINICAN REPUBLIC 533
DOMINICAN REPUBLIC:
Agricultural experiment station 610
Aqueducts—
Contracts with Lithgow and Moore 609
Santo Domingo, plans for 449, 609
Army, term of service in the regular 449
Atheneum organized in Federal capital 609
Budgets of Santo Domingo, 1913 151
Cabinet, personnel of 150
Census, work begun on next 448
Club, sporting, plans for establishing 609
Columbus, Christopher—
Bones of Columbus at Panama-Pacific Exposition 711
Conservation of works of 610
House of 449
Commerce—
Commerce of the Dominican Republic for 1912 408
School opened in Santo Domingo 151
Constitution, modification of 610
Construction work, rules governing 610
Consular invoices 937
Copper mines 610
Cotton in the 677
Electric light and power plants—
Contracts for building 609
Inauguration at Puerto Plata 298
Firearms and ammunition permits 151
Freight manifests and consular invoices 937
Gold mines 610
Governor of Province of Santo Domingo 151
Highways—
Bids for construction of 610
Santo Domingo to Pedro de Macoris 151
Ice plant to be installed in Monte Christi 449
Immigration law 937
International holiday, movement to declare October 12 764
Irrigation of Azua 610
Joubert, Emilio G 449
Military and naval school 610
Milk, law regarding adulteration of 449

DOMINICAN REPUBLIC—Continued.
Mines and mining— Page.
Gold, copper, and other..... 610
Principal mines..... 763
Progreso mining claims..... 937
Minister of the Dominican Republic, dinner by..... 533
National Congress..... 763
National museum to be established in Santo Domingo..... 150
National parks, lands of ancient cities to be used as..... 448
Peynado, Sr. Don Francisco J.: Notable speech..... 54
Postage stamps—
Commemorating centenary of birth of Juan Pablo Darte..... 298
Commemorating founding of "Trinitaria" by Duarte..... 448
New issue of..... 937
Printing and lithographic establishment opened at Puerto Plata..... 449
Public works, appropriation for construction of..... 763
Railways—
Central Dominican Railway leased..... 764
Manzanillo to La Vega, construction approved..... 298, 449
San Pedro de Macoris to San Lorenzo Bay, contract for..... 610
Receiver General Walker W. Vick, annual report of..... 850
Roads, wagon and cart, to be constructed through Republic..... 298
Santo Domingo, the regeneration of..... 724
Schools—
Commercial school opened in Santo Domingo..... 151
Military and naval school..... 610
Society, international, for the conservation of the works of Columbus..... 610
Steamship service established by the Donald Steamship Co..... 937
Steamship service planned by Dutch Steamship Co. with principal ports of Republic..... 298
Telegraph station, wireless, installed in Federal capital..... 610
Theater, The Great Colon, materials and furnishings..... 151
Treaty, arbitration, between Brazil and Dominican Republic..... 448
Water service, Santo Domingo..... 449
Weights and measures, law regarding decimal system of..... 448
DUTCH GUIANA, RESOURCES OF..... 818
ECUADOR:
Advertising clubs, delegate to convention of..... 612
Agricultural exposition inaugurated in Quito..... 450
Agronomic School, Quito..... 299
Aguardiente tax to be used for charitable purposes..... 152
Alpaca and Vicuna..... 108
Budget, 1913..... 765
Budget of Riobamba for fiscal year..... 611
Carbo, Sr. Don Luis Felipe..... 62
Climate of Guayaquil..... 299
Cold-storage company established..... 152
College, Vicente Rocafuerte National, English to be taught in..... 152
Commerce, foreign, of Guayaquil, 1912..... 611
Congress of students, tentative rules of..... 611
Congress of students of Great Colombia..... 152, 300
Consulate to be established at Yokohama..... 939
Debt, public..... 765

ECUADOR—Continued.
Education— Page.
English to be taught in normal schools 152
Foreign teachers for normal schools 152
Higher education 451
Electric-light service—
Chone, plant to be installed at 152, 611
Cuenca, plant to be installed in the city of 939
Exposition, agricultural, Quito 450
Football games, prizes awarded victors in 612
Galapagos Islands to be studied by geographic society 612
Golden, the, Age in Ecuador 873
Guayaquil—
Climate of 299
Population of 612
Highways—
Esmeraldas and Ibarra, highway opened between 611
Jipipapa to Port Machalilla, Government to construct highway between 939
Hospital for fever patients at Latacunga 152
Hospital, Burgos Building, Guayaquil 450
Liquors, additional tax on foreign and domestic 151
Loan authorized for improvements in Guayaquil 938
Loan authorized for construction of Curaray Railway 938
Message of President 764
Minister to the United States—
Biography 358
Reception of new minister 239
Welcome to 251
Monument to Ecuadorian priest 611
Monument to French scientists 299
Oil, exploration and exploitation of 612
Parcels-post convention between Ecuador and Panama 938
Park, Flores, inaugurated in Latacunga 611
Peace conference, St. Louis, Mo., representatives to 152
Petroleum, President to regulate exploitation of 939
Population of Guayaquil 612
Post offices, parcel posts, and postal money orders 765
Publications—
Newspaper, weekly, established at Porteviejo 152
Newspaper founded in Quito by typographic association 152
"Studies on the civil code of Chile" to be published by Ecuador 938
Works on the jurisprudence of Ecuador 938
Quito, the war of 265
Railways—
Babahoyo railway, bids for construction of 612
Curaray Railway 938
Huigra to Cuenca 765
Huigra to Cuenca railway, route of 938
Interocean Railway Co.'s project unacceptable 151
Los Rios, contract for construction of 612
Manta to Santa Ana railway inaugurated 450
Transandine, route of 612
Red Cross military hospital to be erected at Guayaquil 938
Revenues, 1912 765

ECUADOR—Continued.
Schools— Page.
Agronomic, Quito 299
Arts and crafts 611
English for normal school for girls 152
Normal schools, foreign teachers for 152
Statistics 764
Sea wall, construction of 612
Steamers, national line of, to be established by Government 612
Südamerikanische Prähistorische Tempel und Gottheiten 113
Taxes—
Aguardiente tax to be used for charitable purposes 152
Liquors, foreign and domestic 151
Telegraph service, statistics concerning 765
Treaty of amity with Bolivia ratified 611
Treaties, various 764
Universities 451
University, Central, of Quito 939
Water service, potable—
Riobamba, inauguration of supply at 152
Tulcan, plans for 611
Yellow fever, rules for combating 611
ELECTRIC (HYDRO) OPERATIONS IN SOUTH AMERICA 633
FISHES, THE, OF SOUTH AMERICA 781
FLAGS AND COATS OF ARMS OF THE AMERICAN REPUBLICS:
United States of America 833
Uruguay 241
Venezuela 544
GOVERNING BOARD, NOTABLE SPEECHES BY MEMBERS OF:
Calderon, Sr. Don Ignacio, Bolivia 49
Peynado, Sr. Don Francisco J., Dominican Republic 54
Pezet, Sr. Don Federico A., Peru 51
GUATEMALA:
Agricultural products 300
Anniversary of Central American independence 766
Automobiles, taxes on 767
Banks—
Agricultural Mortgage Bank authorized to increase capital 766
Bank of Guatemala, statistics of 613
Births, 1912 153
Boundary commission 453
Bridge to be erected over Samala River 766
Budget, 1913–14 452
Cabrera, Sr. Lic. Estrada, decorated with Legion of Honor 765
Coffee, export tax on 451
Commerce—
Commerce of Guatemala for 1912 584
Foreign, 1912 300
Commercial activity 300
Commercial Guatemala 722
Companies organized 153
Congresses, international, presidential appointments to 451
Congresses, international, invitations from 452
Conservatory of Music, National 614

GUATEMALA—Continued.
Consuls— Page.
France, Argel 766
Las Palmas, Canary Islands 614, 766
Conventions ratified 452
Customs Congress, Paris, delegate to 940
Deaths, 1912 153
Debt, public, interest on 454
Educational statistics 613
Electric-light service—
Plant installed at Palin 300
Retalhuleu 452
Various installations 452
Expositions—
Agricultural and Industrial Exposition, London, July, 1914 939
Annual exposition of products 301
Factory, shoe, concession solicited 301
Feast of musicians 766
Firearms, rules governing the carrying of 300
Government printing office, work of 153
The Hague—
Appointments to Permanent Arbitration Court at 766
Drafts, etc., signed ad referendum 614
Members of the Permanent Court at 613
Highway from San Felipe to Quezlatenango 940
Holiday, public, October 12 940
Hospitals, Government, statistics concerning patients 152
Insurance Co., the Yorkshire 614
Loan, Guatemala City authorized to contract a long-time 613
Marriages, 1912 153
Medical Congress, delegates to the Sixth Pan American 613
Merchandise imported from Belize to Peten—
Rules governing 613
Tax, additional, on duty collected 766
Mexican minister to Guatemala 300
Mining claims denounced 452
Minister to Salvador 940
Monument to Christopher Columbus 614
Opium convention ratified 614
Patent issued to Smith Refrigerating Co 766
Portugal to establish diplomatic mission in Guatemala 765
Postage stamps ordered from England 451
Products—
Agricultural 300
Annual exposition of 300
Railway, Pan American, near completion 766
Revenues, municipal, 1912 153
Schools—
Agricultural school maintained by Government 939
Benches and desks purchased from the United States 614
Statistics concerning 614
United States Students in Guatemala schools 674
Shoe-factory concession solicited 301

GUATEMALA—Continued. Page.
Silver imported into Republic, law concerning..... 614
Singer Sewing Machine Co. establishes branch in Guatemala..... 451
Sulphur springs at Totonicapan..... 614
Supreme Court of Justice of Central America, judges of..... 452
Tax on coffee, export..... 451
United States merchants visit Guatemala..... 300
Water supply, potable, for Barberena..... 452
GUIANA, DUTCH, RESOURCES OF..... 818
HAITI:
Appropriation, emergency, for Department of the Interior..... 454
Arbitration convention between German and French legations..... 767
Archbishop, rebuilding palace of..... 767
Barracks, Dessalines, dedication of..... 941
Bills passed by Senate..... 617
Brazilian vice consul, exequatur delivered to..... 154
Budgets—
Convention for year 1913–14..... 766
Law for fiscal year 1913–14..... 940
Cabinet, personnel of..... 154
Cape Haitien, street and shore front improvements..... 617
Chargé d'affaires to Cuba..... 454
Civil companies, decree concerning..... 301
Commerce of Haiti for 1912..... 415
Commerce with the United States, 1911 and 1912..... 615
Commercial companies, decree concerning..... 301
Congress, special session of..... 454
Congress, closing session of twenty-seventh..... 617
Constitution to be amended..... 453
Constitution, report of commission to consider revision of..... 617
Consul general, New York, appointment of..... 301
Consular appointments..... 454
Contracts awarded by Congress..... 767
Court of cassation..... 767
Debts, foreign, payment of..... 454
Diplomatic appointments..... 454
Diplomatic ceremonial, chief of..... 454
Dominican Republic, exequatur delivered to consul of..... 154
Export products..... 940
French claims to be settled by arbitration..... 768
Imports of American furniture..... 455
Income tax, reduction of..... 767
Industrial companies, decree concerning..... 301
Laws passed by Haitian Congress..... 767
Legation, United States, Washington, appointment of secretary to..... 301
"L'Organisme dans les infections"..... 301, 455
Message of President..... 154
Mills of Haiti, The Great, decree concerning..... 302
Minister to the United States—
Appointment of..... 301
Reception of new minister..... 539
The new minister..... 703
Monetary unit, national..... 453

HAITI—Continued.
National Palace— Page.
Architects' plans 154
Plans selected 616
Ottoman claims 768
Panama-Pacific International Exposition 941
Paraguay designates consul at Port au Prince 453
Passports, law relating to 617
Peru designates consul at Port au Prince 453
Port au Prince—
Fire in business section 154
Waterworks planned for 453
President of Haiti entertained by minister from the United States 617
Public works, bill for construction of 941
Residence, declaration of 940
Schools—
Bids for construction of buildings 941
Normal schools for men and women 767
Statistics 454
Secretary of the Interior and Police, appointment of 301
Secretary of Public Works and Agriculture, appointment of 301
Senate building, architects invited to compete for new 617
Stock companies, decree concerning 301
Taxes—
Automobiles 767
Income 767
Telephone service—
Contract relating to 767
Port au Prince, concession for establishing lines in 941
Tobacco, tax levied on 941
United States minister entertains President of Haiti 617
Wharves—
Jacmel, contract for building wharf at 767, 940, 941
Port de Paix, contract for cement wharf at 941
Waterworks—
Petit Goave 767
Port au Prince 453
HARVARD IN PERU 56
HONDURAS:
Aguardiente, lawing concerning 618
Aqueduct planned for Santa Rosa 618
Bank, Agricultural Commercial, to be established in Tegucigalpa 455
Brewery to be established at La Ceiba 455
Bridges—
Contract for bridge over Jutiapa River 769
Railway bridge to be erected over Ulua River 768
Budget, 1913–14 455
Bust to Gen. Bonilla 456
Bust to Honduran poet, Juan Ramon Molina, to be erected 456
Calleja, Dr. Jose Jorge 943
Cigars, director of school for manufacture of 619
Coal and petroleum concession granted a citizen of the United States 303
Coconuts, concession for erection and exploitation of plant for preparing 302

HONDURAS—Continued. Page.
Coffee trees in municipality of Danli..... 619
Consular service, convention concerning Central American..... 456
Convention concerning Central American consular service approved..... 456
Deputies to National Congress..... 155, 456
Distillery, concession for the establishment of a..... 768
Electric lights to be installed at Puerto Cortes..... 769
Factories—
Shoe, Tegucigalpa..... 303
Soap and candle factory to be established in Gomayaguela..... 303
Flour mill, free importation of material for erection of..... 155
Foreign documents, legalization of..... 155
Geography of Honduras, Ulises Meza Calix'..... 155
Gold—
Auriferous sands discovered in Mosquitia..... 303
Gold placers discovered in Mosquitia..... 619
Tarros, jurisdiction of the municipality of Macuelizo..... 619
Highway planned from La Ceiba to Olanchito..... 942
La Ceiba, Department of Atlantida..... 942
Machinery imported free of duty..... 619
Mines and mining—
Auriferous sands discovered in Mosquitia..... 303
Central America & Martitas Mining Exploration Co..... 943
Concession for gold placers and gold and silver ores..... 619
Gold placers discovered in Mosquitia..... 619
Mining concession granted in Department of Olancho..... 618
Petroleum and coal concession granted citizen of the United States.. 303
Petroleum concession, Department of Comayagua..... 617
Yuscaran mines..... 943
National Congress, deputies to..... 155, 456
Nitrate, sale of..... 456
Olancho County..... 574
Opium convention, international, approved..... 303
Petroleum—
Concession granted a citizen of the United States..... 303
Contract granted American citizen to prospect for..... 618
Exclusive concession, Department of Comayagua..... 617
Exploitation of the Guare Zone..... 769
Port, free, congressional bill providing for a..... 303
Postal convention with Chile ratified..... 455
Puerto Cortes, public improvements planned by municipality of..... 769
Railways—
Pan American Railway, survey of..... 155
Receipts..... 154
Trujillo railway concession..... 942
Road, cart, to be constructed..... 619
Salvadorean Congress thanked for sympathy in death of President Bonilla.. 456
Sanitary convention, international, approved by Congress of Honduras.... 154
Schools—
Annual exposition..... 456
La Ceiba, Department of Atlantida..... 942
Modern school for girls to be erected..... 769
Night school for artisans, Tegucigalpa..... 303

HONDURAS—Continued.
Schools—Continued. Page.
School of agriculture to be organized at Siguatepeque..... 768
School for manufacture of cigars..... 619
Shoe factory, Tegucigalpa..... 303
Soap and candle factory to be established in Gomayaguela..... 303
Steamship service from New Orleans to Roatan and Trujillo..... 303
Sugar-cane industry..... 619
Surgical and Orthopedic Institute..... 456
Tariff, new, of Honduras..... 726
Transportation conditions of La Ceiba..... 942
Transportation service, freight and passenger..... 618
Treaty, Honduran-British, of amity, commerce, and navigation..... 456
Trujillo, climate, water supply, etc..... 942
Waterworks of El Corpus, installation of..... 942
Wharf at Trujillo Bay, construction of..... 942
HYDROELECTRIC OPERATIONS IN SOUTH AMERICA..... 633
INSTITUTE, THE PEOPLE'S, OF PIEDRAS NEGRAS, MEXICO..... 350
IVORY, VEGETABLE, TAGUA..... 192
LAKE ERIE, A YOUNG HERO OF THE BATTLE OF..... 235
LAKE HUACACHINA, PERU..... 801
LA PAZ, PICTURESQUE, THE CAPITAL OF BOLIVIA..... 209
LATIN AMERICA:
Assistant Chief of the Division on Latin American Affairs..... 711
Commerce: Growth of consuming power..... 708
Conference on Latin America at Clark University..... 704
En Amérique Latine..... 729
"Flying" and Latin America..... 856
La Instrucción Publica en la America Latina..... 716
Latin America: Its rise and progress..... 403
Panama-Pacific International Exposition..... 78
Railways, Latin American, present and projected..... 863
Study of Latin American history in the United States..... 711
Teachers, opportunities for Spanish-speaking..... 261
Through Latin lands..... 863
Universities and special schools..... 402
MAGAZINE ARTICLES:
See Pan American in the magazines.
MANILA SHIP AND TRADE TO AMERICA, THE..... 341
MASS AT WASHINGTON, D. C., PAN AMERICAN..... 827
MEDICAL AND DENTAL INSPECTION IN BRAZILIAN SCHOOLS..... 220
MEXICAN FOREIGN OFFICE ARCHIVES..... 657
MEXICO:
A busy time in Mexico..... 581
Academy of Medicine, premiums offered by National..... 458
Agricultural, First, Congress of Mexico..... 457
Alfalfa and its cultivation..... 395
Ancient Mexico reviewed by a modern traveler..... 113
Archæology and Ethnology, International School of American..... 457
Archives, the Mexican Foreign Office..... 657
Banks—
Assets, total..... 156
Bank of London and Mexico moves into its new building..... 944

MEXICO—Continued. Page.
Cactus, bark of 944
Carapan River 457
Chicle, concessions for exploitation of 156, 456
Child labor 770
Coin, exportation of gold and silver coin 619
Colonization—
Agricultural colony, concession for establishment of 770
Land for colonization purposes 770
Station of Chiapas 619
State of Tabasco 619
Coming Mexico, the 113
Commerce—
Commerce of Mexico for 1912 418
Taxes on foreign commerce 770
Congresses—
Congress of primary education, delegates to 769
Dental congress, delegates to 769
First Agricultural Congress of Mexico 457
International congresses, participation in 769
Corn, Indian, free importation of 304
Cotton, establishment of factory for preparation of antiseptic 620
Cyanide practice in 113
Dental congress organized 943
Dentistry, law concerning study of 620
Educational congress, recommendations of 944
Election, special, of President and Vice President 304
Escuela International de Arqueologia y Etnologia Americanas año Escuelar de 1911 à 1912 268
Factories—
Cloth factory, Arandas, State of Jalisco, recommended 943
Cotton, antiseptic 620
Glass 620
Rubber factory, extension of contract for operation of 620
Solid fuel 458
Fishing industry, Gulf of Cortes 156
Forests, Government contract for exploitation of 304
Forestry 770
Fuel, solid 458
Glass factory, request to found 620
Guarantee Co. in contract with Mexcio 304
Henequen, exports from Progreso 156
Holiday, national, October 12 769
Hunting with the Huicholes 725
Industry, new 156
Institute, People's, of Piedras 350
Irrigation—
Concessions for use of water from—
Culiacan River 157
Grullas or Estancia Creek 620
Potosi River 621
San Juan 620
Sinoloa, Oconi, Urepetiro: and Piaxtla Rivers 458
Tula River 304

MEXICO—Continued Page.
Labor, hours of 770
Land, national, divided into lots for sale 770
Lighthouse service 458
Lillies in Lake Chapala 156
Loans—
£20,000,000 loan authorized 304, 770
Speyer & Co., of New York, repayment of amounts loaned by 770
Lumber industry—
Cabinet woods, concession for exploitation of 156
Magistral district 724
Manufacturing Co., Industrial Cloth, net profits, 1912 305
Message of provisional President 769
Mexican Magazine, the 106
The Mexican Pacific 725
Mexican Steel & Chemical Products Co 156
Mexico City, traffic regulations for 621
Mines, title deeds issued to 770
National Library of Mexico 113
Navigation of lakes and rivers hindered by lillies 157
Onyx Co., Pedrara, lower California 104
Pensions, bill providing for 305
Post-office statistics 770
Potassium 156, 457
Pulque, law regarding sale of 621
Railways—
Belgium syndicate solicits concession 305
Concession for construction between Mexico and California in Tijuana 620
Concession to Mr. B. M. Hatfield canceled 612
Contracts for construction of new roads 458
Increase in system 779
National Railways, net receipts, 1912–13 620
Revenues—
Import duties collected, May, 1913 620
Year ended June 30, 1913 770
Rivers declared property of Government 457
Rubber factory, extension of contract for operation of 620
Rubber, Para, in Mexico 716
Saline deposits 156, 457
Schools—
Archæology and Ethnology, International School of American 457
High School, Mexico City, students of science, literature, and art 305
Message of provisional President 769
Springs of Xochimilco, near City of Mexico 943
Tariff rates, duty on 944
Telegraphs—
Wireless apparatus from Europe to replace old one in Mexico City 620
Wireless station, Telefunken, to be erected at Minatitlan 304
Wireless station, Telefunken, port of Tuxpan 157
Telephone service—
Extension of 156
Mexico City, Tlalnepantla and Cuautitlan, service to be established between 304

MEXICO—Continued. Page.
Trade-marks, assignments of 770
Traffic regulations for City of Mexico 620
Trails, new, of Mexico 266
Verdia, Sr. Don Perez, envoy extraordinary and minister plenipotentiary. 694
Wharf to be constructed at Payo Obispo 155
Water concessions 770
Water supply for Mexico City 943
Working classes, dwellings for the 770
Zinc—
Concessions for manufacture of 156
Smelter, extension of contract for establishment of 458
MILITARY COLLEGE AT RIO DE JANEIRO, THE 502
MINISTERS FROM, RECEPTION OF:
Cuba 40
Ecuador 239
Haiti 539
Nicaragua 40
Panama 40
Salvador 539
MINISTER OF THE DOMINICAN REPUBLIC, DINNER BY 533
MÜLLER, DR. LAURO S., TO THE UNITED STATES, MISSION OF 1
NATIONAL HOLIDAYS OF THE AMERICAN REPUBLICS:
United States of America 836
Uruguay 244
Venezuela 547
NATIONAL HYMN OF ARGENTINA, THE 44
NICARAGUA:
Acoyapa, new judicial district of 460
Agriculture, board of 771
Agronomic engineer, Alfred Urzua 622
Anthem, national, to be changed 622
Automobile road under construction between Bluefields and San Miguelito. 458
Banana industry 305
Bank, National, of Nicaragua, increased capital of 945
Budget 621
Canal, probabilities of a new 720
Central American International Office, duties of 621
Chamorro, Sr. Gen. Emiliano: Reception of new minister in the United States 42
Coal mine, district of Siquia 771
Coffee, export duties on 306
Consular service, revision of convention on 621
Consular invoices 771
Contract with Brown Bros. & Co. and J. & W. Seligman & Co 459
Customs waybill, effective July, 1913 306
Designates to the President 459
Educational institutions, Central American 621
Electric light and power plant to be installed at Rivas 622
Fort of Coyatepe, contract for construction of 944
Industries, organization of school for development of 772
Land, tax per hectare 944
Law, practice of, by unnaturalized foreigners 945
Lumber, mahogany industry 305

NICARAGUA—Continued.
Mahogany— Page.
Industry 305
Logs 945
Managua, paving of streets 459
Map of telegraph and telephone lines 622
Martial law 621
Message of President 621
Military School, Managua 622
Mines, coal, district of Siquia 771
Mining Co., the Belle of the South 459
Ministers—
Costa Rica, minister resident from 158
United States, reception of minister to 42
National Assembly—
Committees of 621
Officers of 621
Parcels-post service 622
Postage stamps 459
Postal tariff 157
President empowered to legislate 459
Publications—
Newspaper, El Noticiero, Managua 772
Newspaper, La Tribuna, founded in Managua 306
Railways—
Locomotives ordered from the United States 622
National Railways, net earnings of 771
Schedule changed between Managua, Granada, and Corinto 622
Transcontinental railway, plans submitted for a 622
United Fruit Co. to build new line 305
Road, automobile, under construction 458
Salt deposits at Paso Caballo 306
Schools—
Exchange of students with school in United States 772
Law school at Managua, Dr. A. Falla of 945
Military school 622
School for women 459
Shipping on the Atlantic coast 459
Students with school in United States, exchange of 772
Sugar cane plantation and refinery to be established near Laguna de Perlas. 460
Supreme court 458
Tanning Co., Bluefields (Ltd.) 459
Tariff duties increased 944
Taxes, Jinotepe, municipality of 158
Telegraph—
Map of lines 622
Rates for messages with Central American points 306
Telephone service—
Map of 622
San Juan del Norte to Garra Colorada, Costa Rica, construction of line from 622
NOTABLE ADDRESS BY PRESIDENT WILSON 684

PANAMA: Page.
Agricultural development in 469
Agriculture, tropical 772
Budget for 1913 and 1914, estimated revenues 158
Cable Co., Central & South American, city of Panama 460
Coconut industry 946
Consul of Panama at Callao 624
Commercial organizations visit Panama 713
Copper mines, Juncal Canyon 623
Copyright convention 461
El Canal de Panama 722
Electric light and power plant to be installed in Panama city 460, 623
Exposition, Panama National 623, 624, 772
Extradition law 307
Gardening in 108
Gold mine denounced near Cocle River 307
Governors, appointments of 460
Hague, Permanent Court at The 624
Holiday, national, discovery of Pacific Ocean 772
Immigration, Chinese, law regulating 624, 946
Japan and 863
Land Commission, Joint—
  Dr. Rowe's impressions of commercial possibilities 772
  Dr. Leo S. Rowe resigns from 623
Lands, Government 306, 623, 946
Mendoza, Dr. Carlos Antonio, ex-President of Panama 693
Mines and mining—
  Gold mine denounced 307
  Province of Los Santos 772
  Silver and copper mine, Juncal Canyon 623
Minister to the United States, reception of 41
Morales, Sr. Dr. A. Morales: Reception of new minister in the United States 41
Panama Canal—
  Central America and the 870
  Culebra cut slides, the truth about 724
  Employees, foreign, offered inducements to remain in Republic 624
  On landslides 863
  Our canal in Panama 579
  Panama Canal: Its possible effect on the Central American Republics 579
  Sanitation, the lesson of Canal Zone 866
Panama, past and present 399
Pedagogic congress to meet annually 622
Railways—
  Preliminary surveys, etc., for railways in Provinces of Chiriqui, Cocle, and Los Santos 307
  Survey of railway in Province of Los Santos 772
Remon, Sr. Don Nicolas 691
Revenue for 1913 and 1914 158
Rowe, Dr. Leo S.—
  Impressions of commercial possibilities in 772
  Resigns from Joint Land Commission 623
Sanitation rules of Colon and Panama 461

PANAMA—Continued.
Schools— Page.
Normal school for girls, Panama city 306
Professional school for girls organized 773
Silver mine, Juncal Canyon 623
Social side of Panama life, the 577
Sugar plantation, Aguadulce district 942
Supreme court, members of 773
Telegraph station, wireless, to be constructed at Colon by United Fruit Co. 623
Telephone line to be constructed between Gorgona with Chame 623
Steamer, new, to ply between Colon and Mediterranean points 624
Wharf, concrete and steel, to be constructed in Bay of Panama 159
Wharf market, contract for installation of 460
Water supply and purification system 714
World's greatest constructive spectacle 108
Zone policeman 88 399
PANAMA-PACIFIC INTERNATIONAL EXPOSITION, THE 313
PAN AMERICAN AFFAIRS, PROMINENT IN:
Acosta de Samper, Sra. Dona Soledad 59
Calderon, Dr. Climaco 688
Campos Salles, Sr. Dr. Manuel Ferraz de, demise of 75
Carbo, Sr. Don Luis Felipe 62
Casares, Sr. Don Miguel F 71
Clark, J. Shepherd 67
Codecido, Sr. Don Bernardino Toro 69
Currier, Rev. Charles Warren 69
Espinola, Dr. Manuel José 65
Finch, William Rufus 689
Leguia, Sr. Don Augusto B., ex-President of Peru 693
Lemoine, M. J. de, Bolivian consul general in Brussels 694
Lummis, Charles F 73
Margarit, Sr. Don Enrique R., consul general of Paraguay at Habana, Cuba. 695
Marion, Prof. Henri 691
Mendoza, Dr. Carlos Antonio, ex-President of Panama 693
Morris, Sr. Don Maximo Patricio 71
Ortiz de Rozas, Sr. Don Juan Manuel 690
Piérola, Sr. Nicolas de, ex-President of Peru, demise of 75
Remon, Sr. Don Nicolas 691
Rivas, Sr. Don Santiago 71
Sutton, Warner P 66
Ulloa, Dr. Juan J 691
Varas, Sr. Carlos, journalist, of Chile 695
Verdia, Sr. Don Perez, envoy extraordinary and minister plenipotentiary of Mexico to Guatemala 694
Victoria, Gen. Benjamin 64
PAN AMERICA IN THE MAGAZINES:
Alpaca and vicuna 108
American Journal of International Law 720
Archæology, The Romance of American 724
Argentina—
A local appreciation of Argentina 568
Argentine brewing barley, and Future of malt exportation to Argentina. 716
A thriving brewery in 714
Buenos Aires, improvements in 872

PAN AMERICA IN THE MAGAZINES—Continued.
Argentina—Continued. Page.
Buenos Aires Herald.... 578
Buenos Aires Standard.... 578
Buenos Aires to Valparaiso from a car window.... 714
Cereal growing in.... 725
Ice and refrigeration.... 574
La Ilustración Sud-America.... 395
La Vie Internationale.... 725
Mercurio (of Barcelona).... 870
Outlook, The.... 574
Un Lago de Sal.... 725
Baltimore in South America.... 720
Bananas—
The Bureau of Agriculture banana collection.... 873
Ripening bananas by electrical heat.... 107
Bolivia—
"Bolivia".... 716
Frontier work on the Bolivia-Brazil boundary.... 571
La Bolivia.... 718
Minerals of.... 714
Brazil—
Amazon Basin and the Guiana Highlands, Dr. Koch-Grünberg's exploration in the.... 714
Armored river monitors for.... 575
"Brazil".... 395
Brazil as seen by a great writer.... 725
Brazilian customhouse regulations.... 720
Brazilian diamond industry.... 870
Coal market—The Amazon River, How to control it.... 573
Customhouse regulations.... 720
Frontier work on the Bolivia-Brazil boundary.... 571
Morro Velho, temperatures at the.... 724
Para Congress, the story of.... 870
Rubber exhibition, Rio de Janeiro.... 870
Rubber in southern.... 108
Santos, the port of.... 870
Struggle between Brazil and the Far East.... 718
Chile—
Coal fields of southern Chile.... 722
Costo de la Vida.... 722
Evolución Histórica de las Letras Chilenas.... 872
Nitrate fields of.... 714
People of.... 720
Zigzag.... 396, 872
Chocolate, four hundred years of.... 872
Colombia—
Cattle industry of the Llanos.... 99
Coal on the Pacific coast of.... 96
El Progreso.... 396
Emerald field of.... 718
Mines and the Panama Canal.... 575
Placer mining on the Cauca River.... 577, 870
Progress in a Colombian Mission.... 873
Revista Nacional de Colombia.... 396

PAN AMERICA IN THE MAGAZINES—Continued.

Page.

Costa Rica—
"Costa Rica" 394
El Corozo y la Palma Real 725
La República de Costa Rica 722
Cuba—
El Figaro 396
Habana, Diario Autentico del Sitio de la 870
Microcycas calacoma—A rare plant found in Cuba 725
Progressive Cuba magazine 572
Railway, Van Horne and his Cuban 868
Riverside 718
Trade, increase in Cuba's foreign 718
Vast ore deposits of 720
Curacao, improving harbor of 393
Dominican Republic: The regeneration of Santo Domingo 724
Ecuador: The golden age in 873
Engineering and Mining Journal 716
Expedition to the Central Andes, Prof. Bowman's 389
Factory, ice, inaugurated at Batabano 609
Fishes, some of our food 868
Guatemala, commercial 722
Guiana and beyond, to the great falls of 873
Haiti, negro rule in 395
Honduras—
New tariff of 726
Olancho County 574
Inca Chronicle 716
Incas, the land of the 373
Latin America: La Instruccion Publica en la America Latina 716
La vicuña 872
Mexico—
Hunting with the Huicholes 725
The magistral district 724
Mexican Magazine, The 106
Mexican Pacific, The 725
Mexico Agricola 395
Para rubber in Mexico 716
Mining and Engineering World 720
Mining and smelting at high altitudes on the Andes 724
Nicaragua: Probabilities of a new canal 720
Onyx Co., Pedrara 104
Panama—
Gardening in 108
Japan and 868
Social side of Panama life, the 577
Water supply and purification system 714
Panama Canal—
Central America and the 872
Culebra cut slides, the truth about 724
El Canal de Panama 722
On landslides 866
Panama Canal, the: Its construction and its effect on commerce 385

PAN AMERICA IN THE MAGAZINES—Continued.
Panama Canal—Continued. Page.
Port of Seattle getting ready for the 870
Sanitation, the lesson of Canal Zone 868
The world's greatest constructive spectacle 108
Panama-Pacific International Exposition 864, 866
Pan American Union, the 574
Pan American Union and its annex 859
Paraguay, social life in 724
Peru—
Canyon of the Urubamba, the 393
El Progreso del Peru en 1912 870
Lima 396
Mines of 866
Peru and the opening of the Panama Canal 724
Peru to-day 868
Peruvian mummies 714
Placer, examining a Peruvian 575
Railway development in the south 866
Variedades of Lima 396
West Coast Leader 722
Pine forests of tropical America 720
Porto Rico: A few hints on cane agriculture in 868
Railways—
Latin American Railways, present and projected 866
Madeira-Mamore Railroad, geographical aspects of the new 391
Venezuelan Railway, the Great 391
Rubber—
Para rubber in Mexico 716
Present and future position of the rubber plantation industry 870
Rio de Janeiro rubber exhibition 873
A rubber exposition in California 716
Rubber and its manufactures 726
Rubber in southern Brazil 108
South America—
Alps, the South American 108
Building up South American trade 720
Cattle raising in 873
Road conditions in 718
Shoe and leather trade possibilities in 873
Through South America 718
South American Journal 722
Sponges, the nature, collection, and use of 575
Through Latin lands 866
Tigre, The Trail of the American 716
Titicaca, across, with a glimpse of Bolivia 563
Tropics, the proper diet in the 868
United States—
Los Angeles, the seaport of 379
Tariff on beef situation, effect of the new 872
Uruguay—
British hospital, inauguration of 718
Los Lobos Marinos en las Costas de la Republica Oriental 95

PAN AMERICA IN THE MAGAZINES—Continued.
Venezuela— Page.
Economic development of, the 382
Iron ore development, status of 93
Lactuario de Maracay 872
Venezuela, cattle industry of the llanos of 99
When sailors were sailors 725
White race in the Tropics, the 577
PAN AMERICAN MASS AT WASHINGTON, D. C. 827
PAN AMERICAN NOTES:
Adams, Mr. Franklin, visit to the Far East 86
American Political Science Association 852
Anglo-American Exposition 853
Arbitration, resolution on international 359
Bacon's, Hon. Robert, tour of South America 251, 558, 701
Balboa, monument to 562
Baltimore business men, South American tour by 85
Baltimore, Maryland, importance of port 705
Boston Chamber of Commerce—
In South America 85
Medals to 258
Boys in business, to educate 259
Braddock, Maj. Gen., memorial tablet to 558
Brazil, improved steamship service to 852
Brazilian Students' Association organized 259
Bryan, Secretary, peace plan of 357
Bulletin of Pan American Union, delay in 250
Campos Salles, Sr. Dr. Manuel Ferraz de, ex-President of Brazil, demise of 81
Carnegie, Mr., in Paris, honor to 262
Central America, International Bureau 850
Chicago Association of Commerce in Buenos Aires 701
Chile, general statistics of 367
Chocolate, America's four hundredth anniversary of the introduction of 858
Club, The Century, of Rockford, Illinois 849
Columbus, bones of, at Panama-Pacific Exposition 711
Columbus Day in Boston 552
Commercial organizations visit Panama 713
Conference on Latin America at Clark University 704
Congress, National, of Brazil, history of 849
Congress of Colombian Students, Third International 703
Congress on School of Hygiene, Fourth International 92
Congress of Students, Eighth International 255, 365
Data on custom duties, to compile 369
Data, general descriptive, for distribution 365
Dental Congress at Rio de Janeiro, First Pan American 90
Department of State—
Counselor of 78
Latin American Division, new chief of 79
Secretaries of 78
De Pena, Sr. Dr. Carlos María, minister of Uruguay, receives degree of Doctor of Laws 76
Dry Farming Congress, International 562
Exhibition at Bristol, the international 264

PAN AMERICAN NOTES—Continued. Page.
"Flying" and Latin America 856
Gaillard, Lieut. Col., death of 846
Galveston's excursion to Central America 83
Gaynor, Mayor, of New York, demise of 555
Gonzales, Hon. William E 79
Governing Board—
Pan American Union 550
Informal gatherings of 697
Hale, Hon. Edward J 79
Intercollegiate Cosmopolitan Club 846
International Students' Conference 81
Jefferson, Hon. Benjamin L 79
Judicial Settlement of International Disputes, Society for 846
Knowles, Hon. Horace G., retiring United States minister to Bolivia 85
Kunz, Mr. George F., scientific work by 710
Latin America at refrigeration congress 557
Latin-America at the Panama-Pacific International Exposition 78
Latin-American Affairs, the Assistant Chief of the Division on 711
Latin-American consuming power, growth of 708
Latin-American history in the United States, study of 711
Long, Hon. Boaz W 79
McMillin, Hon. Benton 79
Malone, Hon. Dudley Field 78
Minister from—
Ecuador—
In the United States (biography) 358
Reception of 239
Welcome to 251
Haiti 703
Salvador—
Departure of 697
New minister 697
Ministers, United States, to—
Bolivia 365
Colombia 252
Costa Rica 257
Cuba 254
Dominican Republic 844
Dominican Republic, dinner to minister at Santo Domingo 700
Ecuador 700
Guatemala 853
Haiti 848
Honduras 704
Latin America 70, 361, 698
Nicaragua 361
Panama 707
Peru 710
Venezuela 850
Minister, Peruvian, in the west 252
Miranda, Gen., medallion of 371
Moore, Hon. John Bassett 78
Moreira, Dr. M. de, in Rio de Janeiro 255
Müller, Dr. Lauro Severiano 75

PAN AMERICAN NOTES—Continued. Page.
Naval cadets from South America, visit of 88
New York University confers degree upon Minister de Pena 76
O'Rear, Hon. John D 79
Osborne, Hon. John E 78
Pacific Coast Conference 858
Panama-Pacific International Exposition 357
Panama-Pacific International Exposition banquet 841
Panama-Pacific Exposition Commissioners in Latin America 553
Pan American, a, goes to China 371
Pan American Society, president of 555
Pan American Society of the Pacific Coast 705
Pan American Union—
Architectural Record, tribute from the 848
A word of encouragement 850
Governing Board 550
Governing Board, informal gatherings of 550
High artistic rank of building 560
Paraguayan and Venezuelan participation in the exposition 841
Peace plan of Secretary Bryan 357
Pepper, Charles M., in South America 560
Piérola, Sr. Nicolas de, ex-President of Peru, demise of 81
Porto Rico in 1913, progress of 856
Pulliam, Hon. William E., Receiver General of Dominican customs 86
Reinsch, Dr. Paul, minister to China 371
Rifle matches, international 258
Rivers and Harbors Congress, Tenth National 708
Roosevelt, Col. Theodore, proposed visit to South America 75
Roosevelt's, Col., visit to South America 357
Roosevelt, ex-President, in South America 555, 701
Root, Hon. Elihu: A great Pan American honored 358
Root, Senator, honors for 842
School, International, of American Archæology, Prof. Tozzer at 707
South America—
Illinois manufacturers to visit 842
In women's clubs 264
New travel rate to 854
South American press to visitors, attention of 844
Southern Commercial Congress 250, 552
Spanish in United States schools, teachers of 363
Statue of George Washington in Buenos Aires 254
Statue of Sarmiento in Boston 367
Students (Peru), exchange of 359
Teachers of Spanish in United States schools 363
Teachers, Spanish-speaking, opportunities for 261
Tozzer, Prof., at International School of American Archæology 707
Trade growth with South America 363
Trade in South American beef 367
Tropical diseases, expedition to study 88
Thomson, Hon. Thaddeus A 79
Tours to South America, the Raymond-Whitcomb 372
Uruguay, activities of 369
Venezuelan participation in the exposition, Paraguayan and 841
Vernier, Walter, visit to Central America 372

PAN AMERICAN NOTES—Continued. Page.
Vick, Receiver General Walker W., annual report of 850
Villanueva, Dr. Benito, Argentine Senator, to visit United States 697
Wells, William C 369
White, Hon. Charles D., retiring United States minister to Honduras 854
PARAGUAY:
Agricultural institutes, request to found 625
Arbitration convention with Brazil 774
Army, German instructors for 462
Artigas property presented to Uruguay 625
Asuncion, mayor of 461
Automobile service opened in Asuncion 947
Bakery, municipal 462
Banks—
Bank of the Republic establishes branch in Encarnacion 461
Bank of Spain and America established branch in Asuncion 461
Loans to farmers 462
Mercantile Bank of Asuncion, dividend paid in 1912 625
Notes in circulation from abroad 462
Barracks under construction at Paraguari near completion 461
Bolivia, boundary between Paraguay and 308
Boundary between Bolivia and 308
Boy Scouts organized 947
Brazilian minister to 308
Climate 307, 773
Colony, private German 947
Commerce of Paraguay for 1912 277
Consuls general—
Buenos Aires, Juan B. Goanaa, jr 947
Habana, Cuba, Sr. Don Enrique R. Margarit 695
Denmark, consul of, at Asuncion 461
Duties on necessaries of life 626
Ecuador establishes consulate general in Asuncion 774
Exports, 1912 160
Exposition, Paraguayan and Venezuelan participation in the 841
Factory, meat-canning 774
Ferryboat service inaugurated between Posadas and Encarnacion 625
Fleet, organization of 461
Flour, bill providing for free importation of 625
Gold, premium on 947
Imports, 1912 160
Independence, national centenary of, postponement of 947
Jorge Casaccia Co., by-laws 774
Land, price of 773
Laundry to be established in Asuncion 462
Legation, Rio de Janeiro, secretary of 947
Message of President 159
Meteorological observations 307
Military proving ground 773
Minister of War and Marine 462
Minister to the United States, addresses by 542
Oil Co., the West India 624
Pamphlet, "Apuntes Relativos al Porvenir de la Agricultura y de la Ganaderia en el Paraguay" 462

PARAGUAY—Continued. Page.
Paving of streets 947
Port works, Villeta, construction of 775
Postal Convention, Universal 774
President Schaerer visit military proving ground 773
Propaganda work in London 625
Railways—
Ascuncion to San Jose-mi, concession requested 624
Borja on the Encarnacion line to Iguazu 947
Convention between Paraguay and Argentina 774
Northeastern Paraguayan Railway plans new line 774
Puerto Suarez to Santa Cruz 624
Receipts and expenditures 462
Revenues—
General revenues collected first seven months, 1913 773
Increase in 462
January to March 31, 1913 308
January 1 to October 18, 1913 947
Stamps 462
Rifle target-practice ground established 947
River, Paraguay, depth of 625
San Martin, Gen., floral tribute to 947
Scholarship extended to student in Philadelphia 774
Schools—
Graded schools, building for 775
Ibyrary School, of Uruguay 625
Northern Regional School, inauguration of 947
Secretary to the President 774
Slaughterhouses, Asuncion 308
Social life in Paraguay 724
Society, Consumers' Cooperative 461
Students hold scholarships in England 462
Students sent to Europe and North America 774
Telegraphs—
Wireless stations, contract for 774
Wireless station established at Cerro de Lambare 461
Telephone line, concession for 773
Trade-mark law 774
Tramway service, electric, Asuncion 461, 625, 773
Treaties—
Extradition treaty between Great Britain and Paraguay 462
Extradition treaty between United States and Paraguay 462
Velázquez, Hector, minister to the United States, addresses by 542
Vessels, Government, to be sold 462
War and Marine headquarters 947
PEACE PALACE, THE NEW, AT THE HAGUE 830
PEOPLE'S INSTITUTE OF PIEDRAS NEGRAS, IN MEXICO 350
PERUVIAN RIFLE TEAMS, THE ARGENTINE AND 662
PERU:
Advertising Clubs of America, delegate to Annual Convention 308
Agriculture—
Cooperative societies recommended 309
Implements: Steam plow 309
School of 626

PERU—Continued. Page.
Alpaca and vicuna 108
Andes, highway across 948
Aqueduct at Huancayo, reconstruction of 309
Aviation school near Lima 463, 775
Boundaries—
Peru-Bolivia 626
Peru-Brazil 160, 626
Peru-Ecuador 626
Budget for 1914 775
Cabinet of 627
Canal, proposed construction of a 776
Canyon of the Urubamba 393
Census of the Province of Cuzco 463
Cereals, experiments with 948
Chilean workmen visit Peru 161, 776
Chorrillos contracts loan for public improvements 463
Commerce, foreign, 1912 626
Copper mines, Province of Antofagasta 308
Dental infirmary to be established 161
Electric-light service for Cuzco 309
El Progreso del Peru en 1912 867
Engineering Students, Association of 309
Expedition, Capt. Beasley's 722
Factories, law regulating 627
Guano Island, "La Vieja" 161
Harvard in 56
Highway across the Andes 948
Houses, model, for workmen 627
Inca and pre-Inca period 463
Incas, the land of the 373
Irrigation, available water sources for 627
Lake Huacachina 801
Leguia, Sr. Don Augusto B., ex-President of Peru 693
Lima to Iquitos, trip from 464
Loans—
Foreign loan of £6,000,000 recommended by President 775
Payment of 160
Madre de Dios Territory 626
Medical Congress, Fifth Latin-American 626, 948
Message of President 626
Mines and mining—
Coal and iron deposits, Provinces of Jauja and Huancayo 948
Coal mines, nationalization of 948
Coal mining districts, geological survey of 948
Code, committee to revise 309, 627
Copper mines in the Province of Antofagasta 308
Denouncements in neighborhood of Huanuco 161
Geological survey of coal mining districts .....
Mines of 863
Placer, examining a 575
Minister in the west 252
Medical Congress, Pan American, return of duties collected 463
National Congress convoked into regular session 160

PERU—Continued. Page.
National hymn 463
Oil, Province of Paita, explorations for 948
Orphan asylum planned for Cajamarca 309
Pato Canyon, report on hydraulic works of 776
Peru 112
Peru and the opening of the Panama Canal 724
Peru to-day 866
Peruvian mummies 714
Petroleum industry in Peru, the present and future state of the 268
Pezet, Sr. Don Federico A.: Notable speech 51
Piérola, Sr. Nicolas de 61, 81
Plow, steam 309
Port improvements 627
Publications: Magazine, "Juventud" founded in Lima 309
Putumayo region 626
Railways—
Development in the south 863
Extension of, Eten to Pimentel 776
Revenues, 1912 626
Rifle teams, the Argentine and Peruvian 662
Rubber experiment station 626
Ruins of Tiahuanacu, the ancient 513
Schools—
Arts and crafts, enlargement of 627
Aviation 463, 775
Religious instruction 160
Steamer "Iquitos" to be used in trade between Peru and Chile 463
Students, between Peru and Cuba, exchange of 626
Tax Collecting Co., by-laws approved 161
Telegraph, wireless, station at Ilo completed 776
Treaty, arbitration, with Japan, Sweden, and Portugal 627
University of San Marcos, law faculty of 949
Waterworks—
Huacho 627
Lima 627
Water Works Co. of Lima 463
RAILWAYS OF SOUTH AMERICA 165
RECEPTION OF NEW MINISTERS FROM:
Cuba 40
Ecuador 239
Haiti 539
Nicaragua 40
Panama 40
Salvador 539
RESOURCES OF DUTCH GUIANA 818
RIFLE TEAMS, THE ARGENTINE AND PERUVIAN 662
"RIVADAVIA," ARGENTINA'S DREADNAUGHT 681
RUINS OF TIAHUANACU, THE ANCIENT 513
SALVADOR:
Agriculture—
Government college, professor of arboriculture and floriculture 465
National Society for Stock Raising, subvention to 465, 629

SALVADOR—Continued. Page.
Arbitration convention made with Brazil..... 950
Artesian wells..... 464
Automobile service, San Salvador..... 777
Aviation—
Military school, plan to establish..... 465
Salvadorian aviator, Julio Yudice..... 777
Banks—
Financial conditions of..... 162
Occidental Bank of San Salvador, earnings of..... 777
Beer imported into Republic, 1912..... 629
Budgets—
1913–14..... 628
San Salvador, 1913..... 162
Bust of ex-President Rafael Campo unveiled..... 950
Cement, natural, found in Metapan quarries..... 310
Century plant..... 465
Cheese, foreign, consumption of..... 629
Coffee—
Exports, 1912..... 629
Sacks imported, 1912..... 310
Commerce of Salvador for 1912..... 432
Congress of newspapers, Rio de Janeiro, Brazil, delegate to..... 310
Consular fees..... 628
Consuls and consulates—
Consulate general established at Montevideo..... 310
Consuls general in foreign cities, offices of..... 162
Cotton fabrics, exports from Republic, 1912..... 777
Debt of Republic..... 776
Electric-light service for Coatepeque..... 950
Exports—
1912..... 629
New York to Salvador..... 464, 949
Gold mines, Cochgua volcano..... 465, 629
Granaries to be erected in capitals..... 309
Hydrophobia institute..... 465
Imports—
1912..... 629
First quarter, 1913..... 949
Land and marine conventions, signed in Costa Rica, ratified..... 310
Maguey..... 465
Marine (and land) conventions ratified..... 310
Mexico's exports to Salvador..... 777
Military medals..... 628
Mines and mining—
Asphalt mine in exploitation..... 950
Gold mines, Cochagua volcano..... 465, 629
Minister to the United States—
Departure of..... 697
New minister..... 698
Reception of new minister..... 539
Nitrate deposits at Guayamango..... 161
Patent law, new..... 628

SALVADOR—Continued. Page.
Patents of invention, new law of 949
Pensions, military 776
Publications: Newspaper "Diario del Salvador" opens branch office in New York 162
Railways—
San Miguel to Usulutan, inaugurated 627
San Salvador to La Libertad, plan for construction of 628
Train service between La Union and Usulutan 950
Usulutan railway completed to Ereguayquin 777
Revenues of San Salvador, 1912 310
Rice exported, 1912 628
Sacks imported into Republic, 1912 310
San Salvador, sanitation and paving of 629
Schools—
Arts and crafts 950
English, study of 950
Military aviation, plans for 465
Primary, statistics, 1913 629
Sewing machines imported into Republic 310
Slaughterhouses, municipal 777
Society, Cooperative, of Salvador 777
Students from Salvador in the United States 777
Telephone service between San Salvador and Tegucigalpa 310
Trade-mark law modified 628
Tramway to be built by Santa Ana Electric Light Co 950
Warehouses. (*See* Granaries.)
Workmen, fraternal organization founded for 628
SOUTH AMERICA:
Automobile in 327
Baltimore business men, tour by 85
Baltimore in South America 720
Beef, trade in 367
Boston Chamber of Commerce in 85
Cattle raising in 873
Commerce: Building up of South American trade 720
Expedition from Harvard (United States) to study tropical diseases 88
Fishes of South America, the 781
History, a, of South America. 1854–1904 401
Hydroelectric operations in 633
Illinois manufacturers to visit South America 842
Railways of 165
Road conditions in 718
Shoe and leather trade possibilities in 873
"South America" 730
South American in women's clubs 264
Through South America 718
Travel rates, new, to South America 854
Tropical diseases, Harvard expedition to study 88
SPEECHES BY MEMBERS OF GOVERNING BOARD, NOTABLE 49
STUDENTS, UNITED STATES, IN GUATEMALA SCHOOLS 674
TAGUA—VEGETABLE IVORY 192
TENDERS ON CHILEAN RAILWAY SHOP, CALL FOR 355

Page.
TOKENS OF FRIENDSHIP 347
TRADE TO AMERICA, THE MANILA SHIP AND 341
UNITED STATES:
American Political Science Association 852
Bacon, Robert, in South America 251, 558, 701
Baltimore business men, South American tour by 85
Bananas—
The Bureau of Agriculture banana collection 873
Ripening bananas by electrical heat 107
Boston Chamber of Commerce—
In South America 85
Medals to 258
Return of the Boston Chamber of Commerce delegates 230
Boys in business, to educate 259
Brazil: Tokens of friendship 347
California, the story of 727
Clark, J. Shepherd, editor of El Comercio, New York 67
Club, The Century, of Rockford, Ill 849
Coats of arms, flags and 833
Commercial convention in Mobile 353
Currier, Rev. Charles Warren 69
Finch, William Rufus 689
Flags and coats of arms 833
Gaillard, Lieut. Col., death of 846
Galveston's excursion to Central America 83
Hitch, Calvin M., Assistant Chief of Division on Latin-American Affairs 711
Holidays, national 836
Illinois manufacturers to visit South America 842
Intercollegiate Cosmopolitan Club 846
Judicial Settlement of International Disputes, Society for 846
Knowles, Hon. Horace G., retiring minister to Bolivia 85
Lake Erie, a young hero of the Battle of 235
La Nueva Orentación Politica en los Estados Unidos 722
Long, Hon. Boaz W 79
Los Angeles, the seaport of 379
Lummis, Charles Fletcher 73
Marion, Prof. Henri 691
Ministers to—
Colombia 252
Costa Rica 257
Cuba 254
Dominican Republic 844
Dominican Republic, dinner to minister at Santo Domingo 700
Ecuador 700
Guatemala 853
Haiti 848
Honduras 705
Latin America 79, 698
Panama 707
Peru 710
Venezuela 850
Petroleum exported from California to Chile 932
Pulliam, Hon. William E., Receiver General of Dominican customs 86

UNITED STATES—Continued. Page.
Rivers and Harbors Congress, Tenth National 708
Roosevelt, Theodore, proposed visit to South America 75
Roosevelt's, Colonel, visit to South America 357
Roosevelt, ex-President, in South America 555, 701
Root, Senator, honors for 842
Rubber exposition in California 716
Seattle, port of, getting ready for the Panama Canal 867
Stock exchange from within 400
Sutton, Warner P 66
Tariff on beef situation, effect of the new 870
White, Hon. Charles D., retiring United States Minister to Honduras 854
Wilson, President, notable address by 684
World conscience 728
UNITED STATES STUDENTS IN GUATEMALA SCHOOLS 674
URUGUAY:
Agriculture—
Amount of grain sown in 1911–12 779
Harvest, 1911–12 779
Agronomic station 951
Artigas property 625
Artigas tree 779
Arts, National Museum of Fine 630
Bank of the Republic—
Capital of 163
Popular credits 466
Beef, jerked, exports, 1912 631
Bridge near town of Pan de Azucar opened to traffic 310
Budget for 1913–14 629
Cabinet: Minister of Foreign Relations 162
Centenary of the instruction of Artigas, postage stamps commemorative of 163
Cheese trade with Brazil 310
Coat of arms, flag and 241
Cold-storage industry 310
Commerce, National School of 630
Commercial section of Department of Foreign Relations 466
Congress, international, of agricultural defense 311, 466
Congress of School of Hygiene, Fourth International 92
Cotton exported by port of Paysandu 311
Customs receipts, April, 1913 466
Customs revenues 311
Dental congress, Montevideo 162, 630
Dentistry, First National Congress of 630
Diplomats, foreign, regulations governing 951
Electric-light plants under construction 163
Exports—
Agricultural products 630
Beef, jerked, 1912 631
Hunting and fishery products 630
Mining products 630
Stock 630
Exposition, National Live-Stock and Agricultural 778
Flags and coat of arms 241
Government Palace, decree concerning building of 466

URUGUAY—Continued. Page
Hague, member of Permanent Court at The 631
Harvard expedition to study tropical diseases 88
Holidays, national 244
Hospital, inauguration of the British 718
Immigrants entering Republic, 1912 630
La Paloma, ocean-going steamer arrives at 630
Loans for public improvements—
Colonia, municipality of 631, 779
Federal Government 311, 630
Los Lobos Marinos en las Costas de la Republica Oriental 95
Manganese mines denounced 630
Mercedes, work on suburbs progressing 311
Message of President 465
Mines and mining—
Gold mines, Uruguay Consolidated, sold at auction 951
Manganese mines denounced 630
Minister of Foreign Relations 162
Museum, National, of Fine Arts, officially opened 630
Palace, Government, decree concerning building of 466
Panama-Pacific International Exposition 311
Paraguay, Uruguayan delegates to patriotic celebration of 163
Pena, Sr. Dr. Carlos María de, receives degree of Doctor of Laws 76
Port of Paloma, appropriation requested for enlargement of 311
Postage stamps commemorative of Centenary of the Instruction of Artigas 163
Postal congress, adhesion of Venezuela to resolutions of 163
Railway, Pan American, recommenced 778
Rivas, Sr. Don Santiago 72
Road Congress 950
Sanitary Conference, Sixth International 778
School of Commerce, National 630
Steamship service—
Steamer England arrives at La Paloma 630
Steamer Laguna Merim to ply between Brazil and 630
Theater, national, under construction 465
Treaty, arbitration, signed in Washington 778
Twentieth century impression of Uruguay: Its history, people, commerce, industries, and resources 728
Tuberculosis, League Against 778
Vaccination law 629
Weights and measures: Units of length 951
VEGETABLE IVORY—TAGUA 192
VENEZUELA:
Agronomic station distributes seeds 312
Alcohol to be studied in colleges and public schools 312
Anniversary, hundredth, of the declaration of independence 468
Banana pest 468
Bank law of June 26, 1913 779
Births, 1913 231
Bolivar, Simon, official urn to be made for remains of 312
Bolivia, order of Busto del Libertador conferred on President of 631
Budget for fiscal year 1913–14 467
Cattle industry of the Llanos 99
Coat of arms, flags and 544
Commerce of Venezuela for 1912 281

VENEZUELA—Continued. Page.
Deaths, 1912 631
Debt of Republic, December 31, 1912 780
De Caracas á San Cristobal 580
Declaration of independence 468
Development of, the economic 382
Electric-Light and Power Co. to string cables between La Guiara and Caracas 312
Electrical engineering to be studied in the United States 632
Exports—
Merchandise, first half, 1913 631
Weight and value, 1912 780
Exposition, Paraguayan and Venezuelan, participation in the 841
Factories—
Fibrous plants 468
Paper 632
Stearin 952
Turpentine, mineral 952
Flags and coats of arms 544
Hat manufacturing, School of Arts and Crafts 952
Holidays, national 547
Immigration 468
Imports, weight and value, 1912 780
Iron—
Development, status of 632
Mines, extension of time granted for exploitation of 632
Lactuario de Maracay 870
Lands, public 951
Laws, revising committee of special 632
Lime, extension of time to engage in production of burnt 952
Medicine and Surgery, Institute of, Caracas 631
Merchandise exported from New York to Venezuela, first half, 1913 631
Message of President 164
Mines and mining—
Board of mines established by presidential decree 632
Concession for exploitation of mines, transfer of 468
Copper, district of Bolivar 632
Mining concession granted 780
Reports, monthly, of mining operations 632
Titles to mines 952
Monument to General Simon Bolivar, unveiling of 164
National Congress, officers of Senate and House of Deputies 163
Naturalization law 312, 467
Oils—
"Coco mono," oil from seed of 631
Moriche palm, oil from fruit of 952
Sesame and peanut 632
Paper factory 632
Passengers, incoming and outgoing, registered by maritime ports 468
Peanut oils, concession to manufacture and sell 632
Peru, order of Busto del Libertador conferred on President of 631
Petroleum deposits in district of Colon 312
Population, 1912 631
Protocol between France and Venezuela ratified 468

VENEZUELA—Continued.
Railways— Page.
Carenero Railway & Navigation Co., settlement of claim of..... 468
Statistics, 1912..... 780
Revenue stamps—
Matches, for use in sale of..... 312
One-cent internal revenue stamps, lithographing of..... 952
Roads, construction and repair of..... 468
Rubber: Exploitation of pendare tree prohibited..... 468
Schools—
Arts and Crafts, hat manufacturing..... 952
Statistics, 1912..... 780
Seeds, distribution of samples of..... 952
Sesame oil, concession to manufacture and sell..... 632
South American Alps, the..... 108
Stearin, manufacture of..... 952
Sugar centrals, State of Zulia, establishment of..... 632
Tabrare..... 730
Telegraph lines from Maracaibo to Perija, construction of..... 632
Telephone lines to be constructed..... 164
Temperance, courses in, for colleges and public schools..... 312
Trade-mark laws promulgated August, 1913..... 632, 779
Trail to be constructed between Cariaco and Santa Maria..... 468
Turpentine, mineral, manufacture of..... 952
Urn, official, to be made for remains of Simon Bolivar..... 312
Water, potable, for municipality of Rastrojos..... 312
Wharves at Maracaibo to be repaired..... 164
VENEZUELAN PROGRESS..... 809
WILSON, PRESIDENT, NOTABLE ADDRESS BY..... 684
YOUNG HERO OF THE BATTLE OF LAKE ERIE, A..... 235

INDEX TO ILLUSTRATIONS.

Argentina:
Buenos Aires—
College of Commerce, Buenos Aires University—
"Carlos Pellegrini" school building..... 227
Geographical division..... 227
Library..... 227
Typewriting classroom..... 227
Vestibule, main..... 227
Vestibule on ground floor..... 227
Railway, southern, station..... 166
Casares, Sr. Don Miguel F., Department of Agriculture..... 72
Falls of Iguazu on the Brazilian-Argentine border..... 632
Independence celebration—
Cadets of military college passing in review before presidential stand. 46
Crowd in paddock watching parade..... 47
Infantry of regular army passing President's stand..... 47
Presidential party reviewing parade..... 46
School children singing national anthem..... 48
López y Planes, Sr. Don Vicente (1784–1856)..... 45
National anthem, author of..... 45
Ortiz de Rozas, Sr. Don Juan Manuel..... 690

Argentina—Continued.
Railways— Page.
A quebracho train in northern Argentina 168
Cattle cars in general use on Argentina's railways, one of the types of... 168
Modern railway car 168
Southern railway station in Buenos Aires 168
"Rivadavia"—
As she appears to-day 681
Christening the "Rivadavia" at its launching 683
Launching of the "Rivadavia" at the Fore River Shipbuilding Co., Quincy, Mass., August 26, 1911 682
San Roque Dam, Cordoba Range 634
Statue of George Washington in Palermo Park, Buenos Aires, presented by North Americans 164
Victorico, Gen. Benjamin 64
Automobiles:
Argentine sportsman, Sr. Horacio Anasagasti, in his car built in Buenos Aires 336
Avenue Rio Branco, Rio de Janeiro 329
Contesting car 334
Machine carrying 5 tons of flour up a steep grade in Buenos Aires 331
North American automobiles in Uruguay 332, 334
Sand-blast operator at work 329, 335
Scenes incident to racing contest in Uruguay 339
Street scene in Rio de Janeiro 338
Street sprinkler, type of motor used extensively in Rio de Janeiro 328
Street scene in Sao Paulo 328
"Tilbury," the, conveyance being replaced by automobiles 338
Type of machine frequently seen in Uruguay 330
Winner of a recent race in Uruguay 336
Banquet tendered Dr. Müller by Panama-Pacific Exposition 23
Barrett, Hon. John, Special Ambassador Dr. Müller, Secretary Bryan, and other guests at luncheon given by 8
Bolivia:
Alancha Cascade, near La Paz 637
Chuquiapu thunders along in its mad run to the sea, Obrajes where 567
Exhibit at the Universal Exposition of Ghent—
Building representing the Temple of the Sun 537
Interior of the Temple of the Sun 538
Section of exhibit 538
Indians—
Carnival time among the Aymaras 564
Types at the market 565
La Paz—
Calle Comercio 218
Capitol at 211
Capitol, scene on the second floor of new 213
Capitol, another interior view of new 213
General view of 210
Plaza Murillo, corner of 212
Prado, the 217
Street-car service in 635
Theater, municipal 216

Bolivia—Continued. Page,
Lemoine, M. J. de, chargé d'affaires at Brussels..... 695
Mining scene in Pulacayo, an active..... 169
Obrajes where the Chuquiapu thunders along in its mad run to the sea.... 567
Natives, types of..... 566
Railways—
An active mining scene in Pulacayo..... 170
Tracklaying near Oruro..... 170
Statue of Murillo at La Paz..... 215
Titicaca, Balsas on Lake Titicaca..... 566
Boston Chamber of Commerce tourists:
Arrival in Buenos Aires from Santiago, Chile..... 230
Banquet tendered by business men of Buenos Aires..... 233
Part of delegation embarking on launch to inspect docks of Buenos Aires.. 234
Souvenirs of Bolivia (medals)..... 232
Braddock, Maj. Gen., Rockville, Md., Memorial Tablet unveiled to..... 561
Brazil:
Automobiles—
A new use for an old automobile..... 335
Street scene in Rio de Janeiro..... 338
Street sprinkler, type of motor used extensively in Rio de Janeiro.... 328
Street scene in Sao Paulo..... 328
Campos Salles, Dr. Manuel Ferraz de..... 61
Coffee fazenda near Sao Paulo..... 328
Congress of History, First National, executive committee in charge of..... 366
Costa, Capt. Enrique Adalberto Thedim, of the Minas Geraes..... 28
Dam at Parnahyba, Tiete River, Sao Paulo..... 640
Diagrams: Commerce, 1912..... 738
Espinola, Dr. Manuel José..... 65
Falls of—
Guaira in the Parana River, one of the seven cataracts forming the Great..... 641
Iguazu on the Brazilian-Argentine border..... 632
Itapura, Tieste River, Sao Paulo..... 638
Fonseca, President Marshal Hermes da..... 1
Military College, Rio de Janeiro—
Administration building of..... 504
Cadets..... 502
Cadets passing in review, flag day..... 511
Cadets, reviewing the..... 508
Distinguished visitors..... 506
Dormitory room..... 510
Exterior view of..... 503
Grounds and buildings, interior view of..... 504
Main entrance..... 503
Maneuvers, bicycle, infantry and cavalry..... 507
Mess hall..... 510
United States ambassador at..... 508
Minas Geraes lying in New York Harbor..... 30
Minas Geraes, officers of..... 91
Müller, Dr. Lauro—
Aboard the Minas Geraes during farewell reception given by..... 28
Banquet by Panama-Pacific Exposition..... 23
Convoy of special ambassador..... 30
Cup presented by American Manufacturers' Export Association to.... 16

Brazil—Continued.
Müller, Dr. Lauro—Continued. Page.
Dinner in honor of special ambassador by the Brazilian ambassador to the United States, Dr. da Gama 11
Dinner given by Pan American Society of the United States in honor of. 18
Entertained on San Francisco Bay 32
In doctorate gown, and President Abbott Lawrence Lowell, Harvard University 20
Leaving for the United States 3
Luncheon given by American Manufacturers' Export Association in honor of 12
Planting flag on site of Brazil's pavilion, Panama-Pacific Exposition .. 26
Reviewing United States troops at San Francisco 22
Seeing New York 12
Special mission and party arriving at Bethlehem, Pa 12
Naval officers and midshipmen of training ship "Benjamin Constanti" ... 91
Panama-Pacific International Exposition, flag planting on site of pavilion .. 26
Pires de Andrade, Dr. Gustavo, chief of dental school clinic 222
Railways—
On the way to Corcovado's Umbrella 173
Vanguard of civilization 178
View of a train shed, a building capable of housing hundreds of cars at the same time 189
Rio de Janeiro—
Avenue Rio Branco 329
Terminal, new, of the Tramway, Light & Power Co., Rua Marechal Floriano 642
Sao Paulo, power and light plant of 638
"Tilbury," the, conveyance being replaced by automobile 338
University of Parana at Curytiba, State of Parana, proposed building of the. 716
Vieira de Mello, Dr. B., chief of Medical Service of Schools, Sao Paulo 222
Chile:
Codecido, Sr. Don Bernardino Toro, envoy extraordinary and minister plenipotentiary to Venezuela and Cuba 69
Diagram: Commerce, 1912 881
Falls, Laja 645
Hydroelectric station in the Aconcagua Valley, beginning work on a 640
Morris, Sr. Don Maximo Patrico, consul general to Canada 71
Railway, Arica-La Paz, the terminus of the 175
Rio Calle Calle in southern Chile, a stretch of the 646
River, the Great Aconcagua 647
Santiago, street-car in 650
Varas, Sr. Don Carlos, journalist 696
Colombia:
Acosta de Samper, Sra. Dona Soledad 60
Calderon, Dr. Climaco 688
Cattle on the Llanos 99
Coal seam, near Cali 98
Coal seam, a vertical, near Cali 97
Diagrams: Commerce, 1912 750
Falls, Tequendama 649
Llanos of 100
Railways: At the Juanchito terminal of the Cali tramway 171
River, Bogota, about 4 miles from the Falls of Tequendama 649

Congress of Students, Eighth International: Page.
Argentine delegation 485
Brazilian delegation 485
Chile, delegates from 491
Colombian delegation 487
Cuba, delegates from 487
Dinner given by board of hospitality of the New York Peace Society 507
Guatemala, delegates from 480
Houston Club, University of Pennsylvania 493
Latin-American delegates 481
Officers of 483
Peruvian delegation 489
Porto Rico, delegates from 490
President Wilson's reception, White House, delegates at 497
Reception by Secretary of State, Hon. William J. Bryan, Department of State 495
Speakers and delegates at Latin-American section of 88
Uruguay, delegates from 491
Washington's tomb, Mount Vernon, floral tribute placed by Latin-American students 497
Córdova, Señor Dr. Gonzalo S., new envoy extraordinary and minister plenipotentiary of Ecuador to the United States 253
Costa Rica:
Diagram: Commerce, 1912 272
Ulloa, Dr. Juan J 691
Cotton:
An open boll of Egyptian cotton 678
Triumph cotton 678
Cuba:
Agricultural experiment station at Santiago de Las Vegas—
Cattle ranch 39
Entrance 33
Interior approach and gardens 33
Patches of cultivated lands 37
Planting and irrigation 35
Currier, Rev. Charles Warren, Bishop of Matanzas 70
Desvernine, Sr. Dr. Pablo, envoy extraordinary and minister plenipotentiary to the United States 80
Diagram: Commerce, 1912 901
Margarit, Sr. Don Enrique R., consul general of Paraguay 695
Desvernine, Sr. Dr. Pablo, envoy extraordinary and minister plenipotentiary to the United States 80
Diagrams:
Argentine commerce, 1912 121
Brazil: Commerce, 1912 738
Chile: Commerce, 1912 881
Colombia: Commerce, 1912 750
Costa Rica, commerce of 272
Cuba: Commerce, 1912 901
Dominican Republic: Commerce, 1912 411
Guatemala: Commerce, 1912 586
Haiti: Commerce, 1912 416
Llanos of Venezuela and Colombia 100
Mexican commerce, 1912 425

Diagrams—Continued. Page.
Paraguay: Commerce, 1911 278
Venezuela: Commerce, 1912 284
Dinner in honor of Special Ambassador Müller by Brazilian ambassador to the United States, Dr. da Gama 11
Dinner given in honor of Special Ambassador Müller by Pan American Society 18
Dominican Republic:
Diagram: Commerce, 1912 411
General Receiver's headquarters at Santo Domingo, patio in 865
Henriquez y Carvajal, Sr. Dr. Federico, Chief Justice of the Dominican Republic 534
Jiménez, Sr. Don Enrique, Vice President of the Chamber of Deputies 534
Lovaton, Sr. Lodo. Ramón O., Minister of Foreign Affairs of the Dominican Republic 534
Peynado, Sr. Don Francisco J 533
President José Bordas Valdés 469
Dueñas, Señor Dr. Francisco, new envoy extraordinary and minister plenipotentiary of Salvador to United States 554
Dutch Guiana:
Banama and rubber plantations 819
Bush home 824
Bush negroes, among the, in the far interior 825
Gold in the interior, exploring for 821
Gold washing, primitive 821
Railroad track in 825
Savannah, on the fringe of a 822
Duvivier, M. Ulrick, new envoy extraordinary and minister plenipotentiary of Haiti to the United States 551
Ecuador:
Carbo, Sr. Don. Luis Felipe 63
Córdova, Señor Dr. Gonzalo S., new envoy extraordinary and minister plenipotentiary to the United States 253
Railways—
"Devil's Nose," Guayaquil and Quito railway 182
Strenuous engineering on the Guayaquil and Quito railways 178
Eigenmann, Ph. D., Carl H 784
Ewing, Hon. John, envoy extraordinary and minister plenipotentiary of the United States to Honduras 845
Fishes of South America:
Agmus Lyriformis Eigenmann 790
Bagre, one of the indigenous fishes 789
Cichla ocellaris Bloch and Schneider. The Luchanani 798
Eels—
Legend of the electric eels 786
Mystery of the electric eels 787
First picture of a South American fish ever published 786
Hoplosternum, various species of the 793
Myleus Pacu (Schombrugk) 790
Paecilia vivipara Bloch and Schneider 797
Plate catfish, various species of the 795
Sciadeichthys Proops (Cuvier and Valenciennes) Crucifix fish 792
Serrasalmo Rhonbeus (Linnæus) 790

Page.
Flags and coats of arms:
United States 833
Uruguay 243
Venezuela 545
Gonzales, Hon. William Elliot, envoy extraordinary and minister plenipotentiary of the United States to Cuba 260
Guatemala:
Diagram: Commerce, 1912 586
Military Academy, Guatemala City, which will honor the Government scholarships awarded in the United States 675
Schools—
Practical school for boys, nearing completion, in Guatemala City, to which the Government will admit students 676
Practical school for girls, Guatemala City, which will accept the Government scholarships awarded to United States students 676
Temple of Minerva, Guatemala City 675
Haiti:
Diagram: Commerce, 1912 416
Duvivier, M. Ulrick, new envoy extraordinary and minister plenipotentiary of Haiti to the United States 551
Port au Prince, Le Theatre Parisiana at 721
Statue of Alexandre Pétion, an early President of Haiti, erected at Caracas, Venezuela 570
Hale, Hon. Edward J., envoy extraordinary and minister plenipotentiary of the United States to Costa Rica 262
Hartman, Hon. Charles S., envoy extraordinary and minister plenipotentiary of the United States to Ecuador 556
Henríquez y Carvajal, Sr. Dr. Federico, Chief Justice of the Dominican Republic 534
Hitch, Calvin M., assistant chief of the Latin-American Division of the Department of State of the United States 709
Honduras:
School, English, Siguatepeque, teachers and students at the 867
Ivory, vegetable—*See* Tagua.
Jefferson, Hon. Benjamin Lafayette, envoy extraordinary and minister plenipotentiary of the United States to Nicaragua 361
Jiménez, Sr. Don Enrique, Vice President of the Chamber of Deputies of the Dominican Republic 534
Leavell, Hon. William Hayne, envoy extraordinary and minister plenipotentiary of the United States to Guatemala 847
Lovaton, Sr. Lcdo, Ramón O., Minister of Foreign Affairs of the Dominican Republic 534
Luncheon given by Director General John Barrett—Special Ambassador Müller, Secretary Bryan, and other guests at 8
Luncheon given in honor of Dr. Lauro Müller by American Manufacturers' Export Association 14
McGoodwin, Hon. Preston B., envoy extraordianry and minister plenipotentiary of the United States to Venezuela 702
McMillin, Hon. Benton, envoy extraordinary and minister plenipotentiary of the United States to Peru 363
Magellanes, Hernando de 341
Maps:
Mexico and Acapulco, facsimile of map in "Herrera" 345
Railways of South America 172
Route of Prof. Bowman's expedition to the Central Andes, 1913 390

Page.
Meléndez, Señor Don Carlos, constitutional President of the Republic Salvador. 312
Menza, Sr. Dr. Carlos A., secretary of the legation of Salvador at Washington... 706
Metcalfe, Hon. Richard L., head of the Department of Civil Administration, Acon, Canal Zone, Isthmus of Panama..... 851
Mexico:
Acapulco, harbor of..... 344
Acapulco, view showing topography..... 345
Diagram: Commerce, 1912..... 425
Mexico and Acapulco, facsimile of a map in "Herrera"..... 343
Mexico City—
Building of Department of Foreign Relations..... 658
Stately reception room of the Department of Foreign Relations..... 660
Mining, as quaintly imagined by writers and artists of 1602..... 346
People's Institute of Piedras Negras, State of Coahuila..... 351
Verdia, Sr. Don Luis Perez, envoy extraordinary and minister plenipotentiary to Guatemala..... 694
Moreira, Dr. M. de, president, American Manufacturers' Export Association... 12
Morgan, Hon. Edwin V., United States ambassador at Rio de Janeiro..... 348
Müller, Dr. Lauro:
Aboard the Minas Geraes during farewell reception given by..... 28
And President Abbott Lawrence Lowell, Harvard University..... 20
Banquet tendered by Panama-Pacific Exposition..... 23
Convoy of special embassador..... 30
Cup presented by American Manufacturers' Export Association to..... 16
Dinner in honor of special ambassador by the Brazilian ambassador to the United States, Dr. da Gama..... 11
Dinner given by Pan American Society of the United States in honor of... 18
Entertained on San Francisco Bay..... 23
Leaving Brazil for the United States..... 3
Luncheon given by American Manufacturers' Export Association in honor of 14
Planting flag on site of Brazil's pavilion, Panama-Pacific Exposition..... 26
Reviewing United States troops at San Francisco..... 22
Seeing New York..... 12
Special ambassador, Secretary Bryan, and other guests at luncheon given by Director General John Barrett..... 8
Special envoy and visiting dignitaries reviewing United States troops at San Francisco..... 22
Special mission and party arriving at Bethlehem, Pa..... 12
O'Rear, Hon. John D., envoy extraordinary and minister plenipotentiary of the United States to Bolivia..... 364
Palace of Peace at The Hague..... 831
Panama:
Agricultural lands..... 470
Jungle, running a line for a railroad through a..... 476
Los Santos, seaside village in..... 471
Mendoza, Dr. Carlos Antonio, ex-President..... 693
Panama City, market boats at wharf..... 471
Parade, a, in the interior of..... 471
Railroad construction in..... 474
Railroad through a jungle, running a line for..... 476
Remon, Sr. Don Nicolas..... 691
Road building in..... 475
School gardening in..... 471

Panama Canal: Page.
Gamboa Dyke, before, during, and after the explosion, which connected the two American continents 576
Gates of the Gatun Locks, testing one of the 389
Gatun, the, first vessel to pass through the Gatun Locks, September 26, 1913. 871
Spillway at Gatun 386
Panama-Pacific International Exposition:
Administration building 319
Banquet tendered Dr. Müller by directors of 23
Bird's-eye view of 314
Court of Sun and Stars—
Column at entrance of 320
Figure ornamenting the 320
Denmark's flag drops from the heavens 324
East court, tower of 325
Festival hall 322
Festive court, façade court 322
Flag, the exposition 314
General view of site 316
Palace of Fine Arts, front elevation of 323
Peristyle inward, looking from the 321
Peristyle, looking through the 320
Service building 322
South American commissioners during visit to Venezuela 855
Triumphal arch 318
Pan American mass: Procession entering St. Patrick's Church for Thanksgiving service 827
Pan American Society of the United States: Dinner given in honor of Special Ambassador Müller 18
Pan American Union, Washington, D. C.:
The approach 861
Annex and Aztec garden 780
Annex, as seen across the blue Aztec garden, from the upper stair landing at the rear of the main building 862
Annex, detail of work in loggia of 863
Curve of the entrance drive 859
Looking out from the terrace 860
Paraguay:
Diagram: Commerce, 1911 278
Falls on the Nacundai River, an affluent of the upper Parana, one of three. 653
Margarit, Sr. Don Enrique R., consul general at Habana, Cuba 695
Railway, Yuty station on the Central 184
Perry, Commodore, at the Battle of Lake Erie 236
Perry, Midshipman Alexander J., sword 237
Peru:
Callao, interurban car at 656
Canal at Chosica—
Preliminary work on the Power Canal 654
Section of the Chosica Power Canal 654
Cuzco—
The Apse of Santo Domingo 375
Gates, one of the city 374

Peru—Continued. Page.
Lake Huacachina, Ica—
General view of..... 802
Approach to..... 807
Baths at..... 804
Grand Hotel, piazza of the..... 807
Leguia, Sr. Don Augusto B, ex-President..... 693
Lima, Calloa electric railway substation at..... 656
Piérola, Gen. Nicolás de..... 62
Railways—
Scene on the Oroya Railroad in..... 186. 650
Scene on the Oroya Railroad, Casapalca smelter in the distance..... 188
Ruins of Tiahuanacu—
Church at..... 520
Doorway, monolithic..... 522
Doorway, section of monolithic..... 523
Doorway, monolithic, of old cemetery..... 525
Hut in modern Tiahuanacu..... 551
Idol, monolithic..... 517
Idol, monolithic, details of..... 519
Idol, monolithic, unearthed..... 528
Kalasasaya Palace—
Pedestal in..... 527
Stairway of..... 515
West wall of..... 516
Stone scaffold..... 530
Walls, remnants of ancient..... 520
Sincuani, at the mark..... 376
Tiahuanacu, hut in modern..... 531
Titicaca, Balsas on Lake..... 566
Urcos, the plaza in..... 378
Yanacota power station—
Building a pipe line at the..... 652
General view of..... 652
Peynado, Sr. Don Francisco J..... 533
Price, Hon. William J., envoy extraordinary and minister plenipotentiary of the United States to Panama..... 699
Railways of South America:
Arica-La Paz, a heavy grade on the..... 179
Construction train and plow..... 176
Map of..... 172
Transandine Railroad, avalanche shed..... 180
Washout during the rainy season..... 176
See Railways, under countries.
Rifle matches, international, Camp Perry, Ohio:
Argentine team in action, a squad of..... 670
Argentine naval team..... 670
Camp Perry, general view of..... 663
Interior of target butt..... 665
International shooting house..... 671
International teams..... 666
Making "movies" of the matches..... 671

Rifle matches, international, Camp Perry, Ohio—Continued. Page.
On the 600-yard firing line 672
Pan American teams 663
Pan American trophy won by the Argentine team 668
Pistol and revolver range 665
Shooting from the standing position 669
Rivers of South America:
A South American scene 781
Final stage of navigation 785
In the depths of the interior 783
See Rivers, under countries.
Roosevelt, Col. Theodore, delivering an address before the Y. M. C. A. at Rio de Janeiro, Brazil 857
Salvador:
Dueñas, Sr. Dr. Francisco, new envoy extraordinary and minister plenipotentiary to the United States 554
Meléndez, Señor Don Carlos, constitutional President 312
Menza, Sr. Dr. Calos A., secretary of the legation of Salvador at Washington. 706
President, constitutional 312
Smith, Hon. Madison R., envoy extraordinary and minister plenipotentiary of the United States to Haiti 558
Students Conference. (*See* Congress of Students, Eighth International.)
Sullivan, Hon. James M., envoy extraordinary and minister plenipotentiary of the United States to the Dominican Republic 843
Tagua—Vegetable ivory:
Button king of the Costers 207
Colombia: Tumaco (preparing ivory nuts for shipment) 203
Ecuador—
A female tagua palm, Esmeraldas 193
A male tagua palm, Esmeraldas 193
Bur, the tagua 195
Ivory nuts at Esmeraldas 197
Loading tagua at Manta 203
Market place (bags of ivory nuts) 201
On a tagua plantation 199
Rafts on which nuts are transported 199
Rafts loaded with nuts, Guayaquil 201
Taguaros 197
Evolution of the button—
Ivory nuts 205
Slices of ivory nuts 205
Button developed in color bath 207
Dye chart through which color is sprayed on 207
Partly turned piece 207
Sprayed with shellac 207
Sprayed, developed, and shellac removed 207
White buttons 207
Thompson, Hon. Thaddeus A., envoy extraordinary and minister plenipotentiary of the United States to Colombia 256
Union Latino-Américaine:
Committee of 370
Medallion General F. Miranda 368

United States:
American Manufacturers' Export Association— Page.
Cup presented to Special Ambassador Müller at luncheon by 16
Luncheon in honor of Dr. Lauor Müller 12
President of 12
Bryan, Hon. William Jennings, Secretary of State—
Special Ambassador Müller, Secretary Bryan, and other guests at luncheon given by Director General John Barrett 8
Butt-Millet Memorial Fountain erected on the White House grounds, Washington, D. C 719
California, Los Angeles—
A business street in 380
Breakwater, 2-mile stone 381
Residence, a typical city 383
Camp Perry, near Toledo, Ohio, where the international rifle matches of 1913 were held 664
Clark, J. Shepherd 67
Coat of arms 835
Ewing, Hon. John, envoy extraordinary and minister plenipotentiary of the United States to Honduras 845
Finch, William Rufus 689
Flag and coat of arms 833
Gonzales, Hon. William Elliott, envoy extraordinary and minister plenipotentiary to Cuba 260
Hale, Hon. Edward J., envoy extraordinary and minister plenipotentiary to Costa Rica 262
Hartman, Hon. Charles S., envoy extraordinary and minister plenipotentiary to Ecuador 556
Hitch, Calvin M., Assistant Chief of the Latin-American Division of the Department of State of the United States 709
Leavell, Hon. William Hayne, envoy extraordinary and minister plenipotentiary of the United States to Guatemala 847
Long, Hon. Boaz W., Chief of Latin-American Division of the Department of State 87
Lowell, President Abbott Lawrence, Harvard University 20
Lummis, Charles F 74
Malone, Hon. Dudley Field—
Aboard the Minas Geraes during farewell reception given by Special Ambassador Müller 28
Delivering address at dedication of Brazilian pavilion, San Francisco 24
Seeing New York 12
Third Assistant Secretary of State 6
Marion, Prof. Henri 692
McGoodwin, Hon. Preston B., envoy extraordinary and minister plenipotentiary to Venezuela 702
McMillin, Hon. Benton, envoy extraordinary and minister plenipotentiary of the United States to Peru 363
Metcalfe, Hon. Richard L., head of the Department of Civil Administration, Ancon, Canal Zone, Isthmus of Panama 851
Mobile—
A shady park in 354
Docks at 353
Moore, Hon. John Bassett, Counselor for the Department of State of the 82

United States—Continued. Page.
Onyx—
Cut in hillside of Cave Creek, Ariz., showing detached masses of corroded 103
Marbles (natural size) 105
Osborne, Hon. John E., First Assistant Secretary of State 84
Price, Hon. William J., envoy extraordinary and minister plenipotentiary of the United States to Panama 699
Red Cross, American National, design suggested for building at Washington, D. C., to be used as headquarters of the 715
Roosevelt, Col. Theodore, delivering an address before the Y. M. C. A. at Rio de Janeiro, Brazil 857
Smith, Hon. Madison R., envoy and minister plenipotentiary to Haiti 559
Smith, Capt. Roy C., of U. S. S. Arkansas 28
Statute, bronze, in memory of Chief Keokuk, leader of the Black Hawk Indians, dedicated October 22, 1913, at Keokuk, Iowa 723
Sullivan, Hon. James M., envoy extraordinary and minister plenipotentiary of the United States to the Dominican Republic 843
Sutton, Warner P 66
Thompson, Hon. Thaddeus A., envoy extraordinary and minister plenipotentiary to Colombia 256
Vick, Hon. Walker W., General Receiver of Dominican Customs, Santo Domingo 712
Wilson, President Woodrow 1
Uruguay:
A typical road scene on the plains of 334
Automobiles—
North American machine 332
North American, contesting car 334
Type of machine frequently seen in 330
Winner of a recent race 336
Coat of arms 242
Flag and coat of arms 243
Pena, Sr. Dr. Carlos María de, envoy extraordinary and minister plenipotentiary to the United States 77
A ranch 335
Railways: United States steam shovel en route for use on Pan American Transcontinental Railway 189
Rivas, Sr. Don Santiago, financier and banker 73
Scenes incident to the racing contest 339
Valdés, Gen. José Bordas, President of the Dominican Republic 469
Venezuela:
Bolivar, harbor of the city of 384
Caracas—
Treasury Building 811
View looking west from Calvario Hill 810
Cattle on the llanos 99, 813
Diagram: Commerce, 1912 284
Encantado Rapids, River Guaire 812
Flags and coats of arms 545
Iron region on the lower Orinoco, a section of the Imataca 816
Iron Ore Co., Canadian-Venezuelan—
Location of 94, 815
Portion of plant 4

Venezuela—Continued. Page.
Llanos of Venezuela and Colombia..... 100
Maiquetia, town of, showing La Guaira in the distance..... 814
Miranda, Gen. F., medallion of..... 368
Railways: Scene on the La Guaira-Caracas..... 190
Statue of Alexandre Pétion, an early President of Haiti, erected at Caracas, in recognition of his services to Venezuela during its struggles for independence..... 570
Statue of Col. Atanasio Girardot in "Paseo Camoruco," dedication of..... 869
Union Latino-Américaine, the committee of the..... 371
Vick, Hon. Walker W., General Receiver of Dominican Customs, Santo Domingo..... 712
Views illustrating "The automobile in South America"..... 328–339
Views illustrating "Commercial convention in Mobile"..... 353–354

O

1

BULLETIN

OF THE

PAN AMERICAN UNION

VOL. XXXVII

JULY–DECEMBER

1913

48075

JOHN BARRETT : Director General

FRANCISCO J. YÁNES : : Assistant Director

WASHINGTON, D. C., U. S. A. : : : : : : :

CABLE ADDRESS *for* UNION *and* BULLETIN: "PAU," WASHINGTON

GOVERNMENT PRINTING OFFICE

INDEX TO THE
BULLETIN OF THE PAN AMERICAN UNION

Vol. XXXVII Nos. 238-243

[The index to illustrations will be found on p. LIV.]

Page.

ADDRESS, NOTABLE, BY PRESIDENT WILSON 684
ADDRESSES BY THE MINISTER FROM PARAGUAY 543
AGRICULTURAL DEVELOPMENT IN PANAMA 469
ANCIENT RUINS OF TIAHUANACU, THE 513
ARCHIVES, THE MEXICAN FOREIGN OFFICE 657
ARGENTINA:
Agriculture—
Agricultural station, Province of Salta 929
Message of President 289
Museum established in Buenos Aires 439
Alfalfa, area sown in 289
A local appreciation of Argentina 568
Arbitration Court at The Hague, appointment of members to the Permanent 600
Argentine brewing barley, and future of malt exportation to Argentina 716
Artesian water found at Guemes 599
Banks, subscribed capital of 754
Boundaries of 289
Brewery in Argentina, a thriving 714
Budgets—
1913 600
Proposed expenses for 1914 928
Buenos Aires—
Buenos Aires Herald 578
Buenos Aires Standard 578
Buenos Aires to Valparaiso from a car window 714
Improvements in 870
Population 290
Revenues, 1913 290
Statue of George Washington in 254
Subways: La Ilustracion Sud-Americana 395
Camels imported for service 755
Canals opened for traffic 438
Casares, Sr. Don Miguel F 72
Cattle at stock show 928
Census of the Republic to be taken May, 1914 929
Cereals—
Cereal growing in 725
Exports, first quarter, 1913 290
Children's Congress, First International 928
College of Commerce at Buenos Aires University 225

ARGENTINA—Continued. Page.
Colonization, agricultural 754
Commerce—
College of Commerce, Buenos Aires University 225
Commerce of the Argentine Republic for 1912 117
Commercial congress, first, second, and third 289
Foreign, 1913, first quarter 439
Foreign, first half, 1913 754
Cotton, Province of Cordoba 290
Exports—
Cereals, first quarter, 1913 290
First quarter, 1913 599
Frozen hares 290
Hospital, naval, to be constructed in Buenos Aires 439
Hymn, National 44
Ice and refrigeration 574
Imports—
First quarter, 1913 599
Paper and cardboard imported into 599
Irrigation project, Upper Negro River 600
Irrigation reservoir to be constructed 439
L'Amérique Latine—République Argentine 405
L'Argentine telle qu'elle est (Argentina as it is) 405
La Vie Internationale 725
Legation at Washington, appropriation for 599
Live stock 289
Los Aborigines de la Republica Argentina 730
Meats, frozen and chilled 438
Mercurio (of Barcelona) 867
Message of the President 289
Mines in Province of Catamarca 754
Money-order convention between Costa Rica and Argentina 290
Naturalized foreigners 439
Naval cadets visit the United States 88
Oranges and mandarins 599
Ortiz de Rozas, Sr. Don Juan Manuel 690
Outlook, The 574
Paper and cardboard imported into 599
Park, National Southern 600
Petroleum—
Decree regulating exploration and exploitation of Rivadavia deposits 439
Deposit found in Rivadavia oil fields 928
Exploitation of wells in Comodoro Rivadavia 143
Population of Buenos Aires, April, 1913 290
Professions, rule governing foreigners in practicing their 600
Railways—
Anniversary, fiftieth, of concession to William Wheelwright 289
Buenos Aires Great Southern and the Buenos Aires Great Western 754
Government, length of 289
Ferryboat train service between Posadas, Argentina, and Villa Encarnacion, Paraguay 599
Salta to Pacific coast of Chile, line to be constructed from 290

ARGENTINA—Continued.
Railways—Continued. Page.
San Antonio to Lake Nahuel Huapi, plan to construct line from..... 438
Southern Railway plans branch line..... 439
State railways..... 928
Revenues of the municipality of Buenos Aires..... 290
Rifle teams, the Argentine and Peruvian..... 662
"Rivadavia," Argentina's dreadnought..... 681
Schools—
Aviculture, State of Entre Rios..... 928
Census of 1912..... 928
Stamp-law tariffs..... 290
Statue of Gen. José de San Martin to be erected..... 754
Statue in honor of President Avellaneda unveiled..... 439
Steamers, turbine, ordered..... 754
Steamships, new..... 754
Stock fair..... 599
Sugar—
Mills..... 754
Production in Province of Tucuman..... 754
Tariffs, stamp law..... 290
Telegraphs—
Letter service between Great Britain and Argentina..... 290
Wireless installations on vessels..... 928
Tin ore discovered in Province of Catamarca..... 754
Tobacco—
Distributed to farmers in Province of Corrientes and Misiones..... 599
Province of Cordoba..... 290
Tunnel, subfluvial, under River Plate, plan for..... 438
Twentieth century impressions of Argentina: Its history, people, commerce, industries, and resources..... 726
Un Lago de Sal..... 725
Vessels, law concerning wireless installations on..... 928
Victoria, Gen. Benjamin..... 64
Villanueva, Dr. Benito, to visit the United States..... 697
Wheelwright, William, railway concession, fiftieth anniversary of..... 289
ARGENTINA'S DREADNAUGHT "RIVADAVIA"..... 681
ARGENTINE AND PERUVIAN RIFLE TEAMS..... 662
AUTOMOBILE IN SOUTH AMERICA, THE..... 327
BATTLE OF LAKE ERIE, A YOUNG HERO OF THE..... 235
BOLIVIA:
Across Titicaca, with a glimpse of Bolivia..... 563
Alpaca and Vicuna..... 108
American Institute at La Paz, enlargement of..... 601
Andes, across the..... 264
Anniversary, one hundredth, of first newspaper..... 440
Banks—
Bank of the Bolivian Nation..... 439
Bank of the Nation, increase of capital..... 930
National Bank, capital of..... 144
Bismuth, exports of, 1912..... 144

BOLIVIA—Continued.
Boundaries— Page.
Argentina, survey with 755
Brazilian 755
Paraguay, treaty with 930
Peru, survey with 756
Budget for 1914 929
Calderón, Sr. Don Ignacio: Notable speech 49
Cocaine industry 601
Colonias, drawing of the Territory of 291
Commerce, foreign, 1912 756
Copper exported from Bolivia in 1912 144
Dental college founded in La Paz 291
Electric light plant in Coroico, installation of 144
Exhibit in Belgium 536
Exports—
Bismuth, 1912 144
Copper, 1912 144
Merchandise shipped from New York to Bolivia 440, 144
New York to Bolivia, June and July, 1913 600
Rubber, refined, 1912 602
Extradition treaty to be negotiated with Ecuador 144
Factory of silk, woolen, and cotton goods 930
Frontier work on the Bolivia-Brazil boundary 571
Geographic Society of La Paz, president and secretary of 440
La Bolivia 718
La Paz, picturesque, the capital of Bolivia 209
Lemoine, M. J. de, consul general in Brussels 695
Library, minister of public instruction authorizes purchase of Ruck 440
Loans—
Casius Clay proposes loan to city of La Paz 930
Credit Mobilier loan 756
Morgan loan 756
Public improvements 601
Quiaca to Tupiza Railway loan 756
Message of retiring President 755
Military college enlarged 756
Mines and mining—
Minerals of Bolivia 714
Salt mines 440
Tin mines of Sr. Simon I. Patiño 601
Panama-Pacific Exposition, exhibits for 930
Paraguay establishes legation at La Paz 756
Population of Santa Cruz 601
Publications: One hundredth anniversary of first newspaper 439
Railways—
Arica to Alto de La Paz inaugurated 755
Arica to La Paz, transfer of Bolivian section by Government of Chile 290
Cochabamba to Cliza 144
Convention with Argentina 755
Corocoro, branch line from 144
Loan authorized for construction of new 144
Oruro Railway, terminal station 144

BOLIVIA—Continued.
Railways—Continued. Page.
Passes issued to Government officials..... 930
Porto Velho to Guayaramerin..... 755
Rubber—
Exports of refined rubber, 1912..... 602
Export tax collected at Xipamano..... 291
Salt mines..... 440
Schools—
American Institute, La Paz..... 291
Arts..... 756
Commerce..... 756
Mines..... 756
Telegraph school, national, La Paz..... 290
Veterinary and agronomic..... 756
Society of Fine Arts..... 144
Tagua..... 440
Telegraphs—
Inquisivi and Ayopaya, line completed between..... 601
Lines constructed during 1912..... 756
National school, La Paz..... 290
Total length..... 601
Wireless installations, contract for..... 929
Wireless stations acquired..... 756
Wireless stations to be erected..... 600
Tiahunacu, Guia General Ilustrada de..... 730
Tin Co., Ilallagua..... 290
Tin mines of Sr. Simon I. Patiño..... 601
Tramway to be established in La Paz..... 291
Treaties—
Ecuador, treaty of amity between Bolivia and..... 611
Ecuador, extradition treaty to be negotiated with..... 144
Uruguayan legation established at La Paz..... 440
Vegetable ivory..... 440
Wolfram..... 144
BOLIVIAN EXHIBIT IN BELGIUM, THE..... 536
BOOK NOTES:
Alcance al Diario de Bucaramanga..... 732
Almanach de Gotha, 1913..... 110
American Exporter's Export Trade Directory..... 110
Anales de la Biblioteca..... 731
Anales de la Biblioteca, Tomo VII..... 732
Anales del Correo de el Salvador..... 731
Anales do Congreso Comercial, Industrial e Agricola..... 732
Andes, across the..... 265
Annuaire Généalogique, Diplomatique et Statistique..... 110
Annuaire du Mouvement Pacifiste..... 731
Annual Register, The..... 581
Annuario Penquista..... 732
Argentina—
Los Aborigines de la Republica..... 730
Twentieth century impression of Argentina: Its history, people, commerce, industries, and resources..... 726

Book Notes—Continued. Page.
As old as the moon 265
Beginnings of Spanish-American diplomacy, the 403
Bibliografia Cubana del Siglo XIX 731
Bibliographie Trimestrielle de Droit International 404
Boletin del Cuerpo de Ingenieros de Minas del Peru 731
Bolivar y el Gen. San Martin 732
British Guiana, report on the gold, diamond, and forest industries of 267
California, the story of 727
Chile—
Modern Chile 580
The Republic of Chile 403
Cirugia Politica 580
Coconuts: The consols of the East 400
Coffee 267
Colombia 729
Columbus, the secret of 267
Columbus and his predecessors 265
Commercial laws of the world, the 110
Conquest of New Granada, the 266
Conquest of New Spain, the 267
Costa Rica, history of the discovery and conquest of 727
Crusoe's Island 266
De Orbe Novo 266
De Vasectomia Duplici Necnon de Matrimonio Mulieris Excisae 731
Diamantes Sud-Americanos 730
Diccionario Bio-Bibliographico Cearense 731
Diccionario Geografica del Uruguay 731
Dictionary of Railway Terms 111
Dictionary, pocket: Miskito-English-Spanish and English Miskito-Spanish 404
Discursos e conferencias 731
Don Mauro Fernandez y el Problema Escolar Costarricense 731
Educación Nacional: Trabajos de la Comisión Especial de Instrucción 732
El Cielo y sus Maravillas y el Inferno 581
El Hijo del Corsario Rojo 732
El Papel Moneda 732
En Amérique Latine 729
English for Latin-Americans 111
Esboço de um Projecto de Lei Sobre os Indios do Brasil 730
España y America, 1812–1912 580
Export Manual 580
Export Shipping Guide 110
Exporters' Encyclopædia 1913 110
Fryer's East India and Persia 267
German publications—
Die Kospalme und ihre Kultur 112
Geschichte Südamerikas 112
Indianerleben 397
Kostarika 112
Peru 112
Südamerikanische Prähistorische Tempel und Gottheiten 113
Ulrich Schmidel 112
Guatemala 731

BOOK NOTES—Continued. Page.
Guayaquil en la Mano.... 731
Guia General Ilustrada de Tiahunacu.... 730
Hague conferences, the two.... 581
Hammond's Home and Office Atlas of the World.... 111
Ideas y Narraciones.... 732
Informe del Director Gral de Correos y Telégrafos.... 732
International Mind, The.... 399
Kelly's directory of merchants, manufacturers, and shippers of the United States, Canada, and the States of Central and South America.... 111
L'Amérique Latine-République Argentine.... 405
L'Argentine telle qu'elle est (Argentina as it is).... 405
La Colombiada.... 731
La Cordillera Venezolana de los Andes.... 731
La Cosecha Humana.... 731
La Estadística en Nuestra Administración.... 731
La Guerra de los Balkanes.... 732
La Mala Vida en Barcelona.... 731
La Nacionalidad en la Relaciones Internacionales.... 730
Land, the, of the peaks and the pampas.... 730
La Nueva Filosofia del Dinero.... 732
La Personalidad Internacional de España.... 732
Las Escuelas Militares en Francia.... 732
Las Mejores Poesias Liricas de la Langua Castellana.... 580
Las Publicaciones del Museo Nacional.... 732
Latin America: Its rise and progress.... 403
Latin-American universities and special schools.... 402
La Vida Que Pasa.... 730
Lecciones de Retórica y Literatura.... 732
Le Droit Civil en Amérique.... 267
Lords of the devil's paradise, the.... 267
Los Indios del Brazil.... 732
Los Marañones.... 732
Map of Brazil.... 266
Memoirs and correspondence of Charles Steedman, rear admiral, United States Navy, with autobiography and private journals.... 404
Mexico—
A busy time in Mexico.... 581
Ancient Mexico reviewed by a modern traveler.... 113
Coming Mexico, the.... 113
Cyanide, practice in.... 113
Escuela Internacional de Arqueologia y Etnologia Americanas año Escuelar de 1911 à 1912.... 268
Mystery of the Barranca.... 113
National library of Mexico.... 113
New trails of Mexico.... 266
Monroïsme?.... 405
Monuments of the world, the esquestrian.... 267
Newark-made goods.... 579
Obed Hussey.... 266
Pacific, the new.... 265
Páginas de Verad, la Ultima Guerra Ecuatoriana.... 731
Panama, glimpses of Panama and of the canal.... 403

Book Notes—Continued. Page.
"Panama past and present" 398
Zone policeman 88 399
Panama Canal—
Great Britain and the 401
Our canal in Panama 579
Panama Canal: Its possible effect on the Central American Republics .. 579
Panama Canal conflict, the 367
Peace Monument of America, the 109
Petroleum industry in Peru, the present and future state of the 268
Philippine coconut industry 267
Pitman's commercial grammar series—Spanish 111
Pitman's Spanish commercial correspondence 111
Pomarrosas 731
Proceedings of third national conference American Society for Judicial Settlement of International Disputes 581
Quito, the war of 265
Rafagas Politicas 731
Railways—
Earning power of railroads, the 581
Sayings and writings about the railways 580
Resumen de la Historia de Santo Domingo 731
Retrospection 265
Revolucion Pacifica 731
Rubber Trade Directory of the World 110
Scenas e Perfis 731
Science, archaeology, and geography—
Birds, new, from the Orinoco region and from Trinidad 113
Birds from Panama 114
Diptera from Panama 114
Exploraçao do Rio Parana 114
Lake Parinacochas 114
Mammals from eastern Panama, new 114
Natural history, first student of American 114
New decapod crustaceans from Panama 114
Sawflies from Panama 114
Serpents, Butantan, Brazil, Garden of 113
Shells collected in Peru, land 114
Rubelzul cotton from Guatemala 113
Vitcos, the last Inca capital 114
Shipping World Year Book, The 111
Shorthand textbooks—
Clave de la Taquigrafía Españala 111
Taquigrafía Española 111
Taquigrafía Fonética Gregg-Pani 111
Silviculture in the Tropics 401
South America—
A bibliography of 403
A history of South America, 1854–1904 401
South America 730
Southland of North America 397
Statesman's Year-Book 581
Stock exchange from within 400

BOOK NOTES—Continued. Page.
Suspension de Pagos 732
Telephone statistics of the world 267
Textile fibers, the 581
Through our unknown Southwest 581
Trabajos Selectos 732
Uruguay—
Twentieth century impression of Uruguay: Its history, people, commerce, industries, and resources 728
Venezuela: De Caracas á San Cristobal 580
Venezolano, Teatro Critico 730
Wonders of the world 266
World conscience 728
BOSTON CHAMBER OF COMMERCE DELEGATES, RETURN OF THE 230
BRAZIL:
Academy of medicine, president of 602
Agriculture—
Delegation to agricultural congress, Oklahoma, United States 603
School opened in honor of the anniversary of the independence of the United States of America 292
Superior school opened at Rio de Janeiro 441
Amazon Basin and the Guiana Highlands, Dr. Koch-Grünberg's exploration in the 714
Andes, across the 265
Argentine officials visit Brazilian cities 757
Armored river monitors for Brazil 575
Aviation—
Prize offered by municipality of Sao Paulo 603
School to be established at Sao Paulo 442
Bank, conversion 757
Board of trade established at Hamburg, Germany 603
Bonds, 5 per cent interest-bearing, issued for payment of sanitation and dredging of rivers 292
Boundary treaty with Uruguay approved 930
Brazil as seen by a great writer 725
Campos Sales, Sr. Dr. Manuel Ferraz de 61, 81
Coal market, the Amazon River: How to control it 573
Coconut cultivation 441
Coffee—
Exports, January to July, 1913 756
Exports, 1912, increase in 146
Coins, silver, to be minted 603
Colonizing Co., Brazil Takushoku Kaiska 292
Colony to be established in State of Parana 603
Commerce of Brazil for 1912 736
Commerce, foreign, 1912 145
Congress of economic defense 603, 870
Congress, national, of history of Brazil 849
Congress, national, of instruction 441
Congress of workmen 757
Consulate established at Tripoli 602
Convention, arbitration, with Italy 602
Customs receipts, 1912 292
Customs tariff to be reformed 146

BRAZIL—Continued. Page.
de Moreira, Dr., in Rio de Janeiro 255
Dental congress, first Pan American 90
Diamond, Brazilian, industry 870
Education 145
Espinola, Dr. Manuel José 65
Exports—
1912 145
1913, first seven months of 756
Coffee, 1912, increase in 146
Coffee, January to July, 1913 756
Gold to Europe 602
Rubber, 1912, increase in 146
Rubber, January to July, 1913 756
Expositions—
Appropriation for San Francisco and London Expositions 931
Aviculture, apiculture, floriculture, horticulture, and pomiculture 441
Rubber, Rio de Janeiro 293
Universal exposition to be held in 1922 292
Frontier work on the Bolivia-Brazil boundary 571
Fruits, exportation of 931
Geographic society, Argentine minister elected honorary member of 441
Gold to Europe, exports of 602
Governor and lieutenant governor of State of Maranhao 757
Hospital, marine, inaugurated 441
Immigrants—
Hotel, bids for construction of 293
Japanese 441
Japanese arriving at Santos in 1913 931
Number landing at Rio de Janeiro 757
Number landing at Sao Paulo 292, 441, 757
Imports for first seven months, 1913 756
Live stock, number in State of Maranhao 441
Lloyd Brasileiro Co., liquidation of debt of 757
Loans—
Belem do Para contracts with English syndicate for a loan 603
Bonds issued for payment of 292
Federal Government negotiates loan in London 603
Loan for works to prevent inundations in Rio de Janeiro 757
Map of 266
Maritime convention 931
Medical congress, delegates to 757
Medical and dental inspection in schools 221
Message of President 145
Military college at Rio de Janeiro 502
Mines and mining—
Belgium Tin Mining Co 931
Gold exports to Europe 602
Gold mines discovered in Maranhao 603
Minister to Brussels 757
Monument to Baron do Rio Branco, laying of corner stone 757
Morro Velho, temperatures at the 724
Müller, Dr. Lauro S., to the United States, mission of 175
Naval cadets visit the United States 88

BRAZIL—Continued. Page.
Navy, secretary of 757
Paraguayan tea. *See* Yerba maté.
Pimental, Mr. Barros 757
Population of Rio de Janeiro 292
Portugal delegates formulating treaty of peace and amity with Brazil 293
Publications: Entry of samples sent to exhibit in Spain 292
Railways—
Cost of 145
Kilometers open to traffic 145
Loans negotiated by Madeira-Mamore and the Brazil railways 931
Madeira-Mamore Railroad, geographical aspects of the new 391
Rio Grande to Santa Victoria do Palmar Railway, extension of 931
Tariffs of the Central 29
Receipts, 1911 and 1912 146
Revenues—
Municipality of Rio de Janeiro 756
State of Rio Grande for year 1914 931
Rice, cultivation of, by the Brazil Takushoku Kaiska Colonizing Co 292
Rio de Janeiro—
Hotel, new, to be opened in suburbs 603
Population 292
Rubber—
Exports, January to July, 1913 756
Exports, 1912, increase in 146
Exposition, Rio de Janeiro 293, 930
Protection of industry 757
Rio de Janeiro rubber exhibition 873
Rubber in southern Brazil 108
Taxes, State of Para, reduction of 293
Ruins of a lost city discovered 603
Schools—
Aviation school to be established at Sao Paulo 442
Loan requested for construction of buildings 931
Medical and dental inspection in 221
School population of Rio Grande 931
Superior School of Agriculture and Veterinary Science opened at Rio de Janeiro 441
Secretary of the navy 442
Senate vacancy from State of Sao Paulo filled 603
Statue in honor of Dr. Campos Salles, subscription opened for erection of 442
Steamship service to Brazil, improved 852
Stock fair in Minas Geraes 603
Struggle between Brazil and the Far East 718
Students' association organized 259
Telegraphs—
Marconi Co. to establish stations 757
Wireless stations in operation 602
Time, official 293
Treaties—
Arbitration treaty with Bolivia 602
Extradition treaty with Bolivia 602
Extradition treaty with the United States 602
Treaty of peace and amity with Portugal under formation 293

BRAZIL—Continued. Page.
United States: Tokens of friendship..... 347
Veterinary school, agricultural and..... 292
Wharf, acceptance of bid for construction of..... 930
Yellow fever, State of Amazonas..... 602
Yerba mate—
Annual exports of..... 602
Imports into Berlin exempt from duty..... 931
CALL FOR TENDERS ON CHILEAN RAILWAY SHOP..... 355
CENTRAL AMERICA:
Consular service..... 456
Panama Canal, Central America and the..... 870
South American Journal..... 722
CHILE:
Arica: Plans for breakwater and driveway..... 443
Bank for miners..... 604
Borax deposits, yield of..... 603
Buenos Aires to Valparaiso from a car window..... 714
Circus-theater, Valparaiso..... 442
Coal fields of southern Chile..... 722
Commerce of Chile for 1912..... 876
Commercial commission, consulting..... 146
Congress, first, of industries and commerce..... 442
Copper—
Chuquicamata mines..... 604
Combarbala mining region..... 604
Exports, 1912..... 605
Exports to the United States, 1912..... 294
Tofo iron mines..... 442
Costa de la Vida..... 722
Customs revenues, first nine months, 1913..... 931
Evolucion Historica de las Letras Chilenas..... 870
Exports—
1912..... 603
Copper, 1912..... 605
Copper to the United States, 1912..... 294
Nitrates, 1912..... 604
Nitrate to the United States, 1912..... 294
Silver to the United States, 1912..... 294
Exposition, Panama-Pacific, appropriation requested for..... 294
Gold Mining Co., Rancagua, organized..... 294
Hospital, British North American, Valparaiso..... 758
Imports—
1912..... 603
Valparaiso, 1896 to 1912..... 932
Industrial establishments..... 758
Iron—
Combarbala mining region..... 604
Smelter planned by Brauna & Co. near Palma Station..... 294
Tofo mines..... 442
Map, mining, of the Province of Antofagasta..... 932
Message of President..... 605

CHILE—Continued.
Mines and mining— Page.
Atacama zone 758
Chilean Exploration Co. 293, 604
Combarbala region 604
Copper 442
Copper mines of Chuquicamata 604
Gold Mining Co., Rancagua, organized 294
Iron mines, Tofo 442
Map of Province of Antofagasta 932
Modern Chile 580
Morris, Sr. Maximo Patricio, consul in Vancouver 71
Museum to be established in Valparaiso 443
Nitrates—
Annual exports from provinces of Tarapaca and Antofagasta 758
Exports, 1912 604
Exports to California 932
Exports to the United States, 1912 294
Fields of 714
People, the, of Chile 720
Petroleum—
Ancud, boring discontinued at 294
Magallanes zone, new investigations in 147
Railways—
Antofagasta to Bolivia, branch planned to Mejillones 146
Arica to La Paz—
Rolling stock, delay in 442
Tariff rates for passenger and freight traffic 442
Chuquicamata to Cobija, proposed construction 759
Government railways under construction 146
Loncoche to Villarrica, application to construct railway from 932
Longitudinal Railway, new section opened to traffic 759
Northern Longitudinal authorized to open various sections 604
Osorno to Puerto Montt, cost of first and second class tickets 294
State railways, length of 605
State railways, report of 758
Tenders on Chilean Railway shop, call for 355
Revenues, customs 931
Schools of arts and crafts, Santiago, reorganization of 294
Silver exports to the United States, 1913 294
Statistics of 367
Steamship Co., Austrian, contract ratified 932
Telegraphs—
Wireless stations completed 758
Wireless stations in operation 443, 932
Wireless course established in State university 294
Telephone service, southern Chile 294
Tramways of Punta Arenas to be improved 443
Tuberculosis sanitarium 932
Valparaiso—
Circus theater near completion 442
Museum to be established in 443
Varas, Sr. Carlos, journalist 695

CHILE—Continued.
Water service—
Iquique— Page.
Supply planned for 146
Plan for potable water approved 294
La Ligua, potable supply for 146, 294
Ninhue, inauguration at 146
San Felipe, Tome, and Tacna, supply to be improved at 146
Temuco, completion of reservoir for 294
Valdivia, supply to be improved at 146
Waterworks—
Cauquenes, completion of works for 294
Wharf, steel, to be constructed at Cobija 758
COATS OF ARMS OF THE AMERICAN REPUBLICS. *See* Flags, etc.
COLLEGE OF COMMERCE AT BUENOS AIRES UNIVERSITY 225
COLOMBIA:
Acosta de Samper. Sra. Dona Soledad 60
Agronomic Institute, City of Pasto 444
Aqueducts—
Galan in Santander 147
Medellin to have aqueduct 148
Automobile omnibus service for Medellin 148
Bananas—
Exports, 1912 444
Exports, first quarter, 1913 444
Banks—
Antioquia German Bank, at Medellin, to establish mortgage department 444
Bank of Caldas to be established 759
Bank of issue to be established by Louis Dreyfus & Co., of Paris 759
Industrial bank incorporated at Cartagena 444
Bogota, contract for asphalting 147
Boy Scouts, Bogota 444
Budget of receipts and expenditures of Department of Antioquia, 1913 147
Buenaventura, port of—
Contract for improvement of 443
Sanitary service of 444
Calderon, Dr. Climaco 688
Canalization board 147
Cattle industry of the Llanos 99
Cattle raising near Papayal 933
Census, March, 1912 295
Centenary of independence of Department of Boyaca 933
Clubs—
Marksman's Club, Bogota 147
Coins, national silver 933
Cold-storage plant to be erected by Swift & Co 933
"Colombia" 729
Commerce of Colombia for 1912 748
Congress of Colombian students, third international 703
Congress, National—
Date of opening 444
Officers of 444

COLOMBIA—Continued. Page.
Designates to the Presidency 605
Educational statistics 605
Emerald fields of 718
Expenditures, estimated, 1914 605
Exports—
1912 605
Bananas, 1912 444
Bananas, first quarter, 1913 444
Factory, soap, Bogota 147
Fiscal code 147
Fish—
Itsmina, Choco Territory 147
University of Indiana 147
Flag celebration, first 445
Fluvial Navigation Co., organized at Cali 444
Fluvial Transport Co., organized at Manizales 444
Foreigners in Bogota 444
Granada, the conquest of 266
Holiday, national, March 25, 1914 933
Immigration 605
Imports for 1912 605
Jurists, committee of, department of foreign relations 759
Laws of National Congress 147
Lumber business 933
Maps—
Municipality of Tumaco 147
Patia and Telembi Rivers 760
Message of the President 605
Milling companies, Nevada and Caribe 759
Mines and mining—
Choco Territory 760
Mining and Engineering World 720
Placer mining on the Cauca River 577, 867
Minister resident of Cuba at Bogota 760
Mint at Medellin 605
Mission, progress in a Colombian 873
Mogangui, direct communication with 760
Monument to Juan del Corral 933
Moving picture company organized 933
Navigation, hydroplane 760
Penal colony established in Department of Magdalena 147
Petroleum—
Contract for development of 606
Rules governing discoverers of 147
Population—
Bogota, number of foreigners 295
Official census, 1912 295
Post-office statistics 934
Products, samples on exhibition 444
Railways—
Amaga Railway 760
Antioquia Railway opens station at Copacabana 760

COLOMBIA—Continued.
Railways—Continued. Page.
Bogota to point between Guateque and Villa Pinzon..... 760
Branch railway to connect Amolaima with the Girardot..... 934
Nariño and Tamalamque..... 606
Nemocon to Chiquinquira..... 606
Pacific Ocean to the Putumayo River, technical study of survey..... 147
Santa Marta to Tablazo branch line..... 760
Southern Railway to be extended to Tequedama Falls..... 148
Tunja to Magdalena River, construction of line from..... 444
United Fruit Co..... 760
Revenues—
1912..... 760
Estimated, 1914..... 605
River, removal of bar at mouth of the Magdalena..... 933
San Antonio, automobile service..... 760
Sanitary service, port of Buenaventura..... 444
Sanitary station, Puerto Colombia, opened..... 605
Sanitary service organized by United Fruit Co..... 760
Schools, number of..... 605
Slaughterhouse to be erected by Swift & Co..... 933
Soap factory established at Bogota..... 147
Seeds, samples on exhibition..... 444
Steamer "Bucaramanga" placed in public service..... 933
Südamerikanische Prähistorische Tempel und Gottheiten..... 113
Sugar plantation inaugurated at Sucre..... 760
Telegrams, statistics concerning..... 934
Telegraphy—
Wireless service to be established with New York..... 147
Wireless station at Cartagena inaugurated..... 444
Towels, manufacture of..... 933
Town, new..... 147
Tramway, central station planned for San Francisco..... 148
Vegetable ivory..... 933
Vessel christened "Presidente Restrepo"..... 444
Wharf, passenger, planned for Calamar..... 295
COMMERCE OF:
Argentine Republic for 1912..... 117
Brazil for 1912..... 736
Chile for 1912..... 876
Colombia for 1912..... 748
Costa Rica for 1912..... 271
Cuba for 1912..... 896
Dominican Republic for 1912..... 408
Guatemala for 1912..... 584
Haiti for 1912..... 415
Mexico for 1912..... 418
Paraguay for 1912..... 277
Salvador for 1912..... 432
Venezuela for 1912..... 281
COMMERCIAL CONVENTION IN MOBILE..... 353
CONGRESS OF STUDENTS, EIGHTH INTERNATIONAL..... 478
CONSULAR REPORTS, SUBJECT MATTER OF..... 114, 269, 406, 582, 733, 874

COSTA RICA: Page.
Armed force, maximum to be maintained 446
Automobile transportation service 606
Automobile freight and passenger service 761
Bananas—
Candy Banana Co. organized, San Jose 296
Escocia Banana Co. organized 296
Estrada, district of Limon 295
Exports, 1912 606
Seed imported from Dutch Guiana 149
Bank, Anglo-Costarican, increase of capital of 934
Boxes and tins for fruits admitted free 296
Bridge to be constructed over Toyogres River 607
Budget for fiscal year 1914 760
Cacao, Estrada, district of Limon 295
Central American court of justice, officers of 607
College at Cartago subventioned by Costa Rican Congress 446
Commerce of Costa Rica for 1912 271
Concessions—
Mail and transportation service, renewal of concession for 606
Water from Rosales River 607
Consul adhonorem in Norway, Sr. Oscar Dahl 149
"Costa Rica" 394
Customs receipts, February and January, 1913 296
Customs revenues 761
Dairies, Estrada, district of Limon 296
Dairy and hacienda on slopes of Turrialba Volcano sold 446
El Corozo y la Palma Real 725
Electric-light service—
Limon, bids for construction and exploitation of hydroelectric plant 296
Plant to be erected at Heredia 935
Plant at San Pedro de Poas 935
Siquirres, hydroelectric light and power plant to be installed at 295
Emeralds, Aoyac Valley 446
Estrada, district of Limon—
Industries 295
Population 295
Products 295
Exports—
1912 148
Bananas, 1912 606
Fibers, textile, cultivation and development of 934
Fibrous plants, contract for cultivation of 607
Financial condition of Republic 445
Fruit boxes and tins admitted free 296
Highways—
Government highways 607
National highway to be constructed from Alajuela to crater of Poas volcano 606
History of the discovery and conquest of 727
Hospitals—
Infants' hospital, San Jose 606
Public hospital, Limon 446

COSTA RICA—Continued.
Imports— Page.
1912, message of the President..... 148
School desks..... 149
Kostarika..... 112
Laborers in demand..... 149
La Republica de Costa Rica..... 722
Limon—
Expenditure, 1913..... 149
Receipts, 1913..... 149
Loans—
Limon, municipality of..... 149
Loan made by the Anglo-Costarican Bank to municipality of San Jose.. 446
Magazine, a new..... 934
Mail and transportation service, renewal of concession for..... 606
Mails, transporation of..... 934
Market, municipal, Puntarenas, under construction..... 935
Message of President..... 148
Minister of Foreign Relations of Panama officially received..... 935
Pacific coast region..... 446
Parcel-post service..... 761
Petroleum, exploration and exploitation of..... 934
Pumps, potable centrifugal, postponement of purchase of..... 296
Railways—
Pacific railway, gross receipts and expenditures..... 606
Province of Guanacaste, bill for construction of railway in..... 934
Revenues—
1912..... 445
1913, first nine months..... 934
Theater tax..... 445
Total, January to July, 1913..... 761
Road, paved, from Cartago to San Jose near completion..... 296
Rubber, Estrada, district of Limon..... 295
San Jose, proposal for paving streets of..... 296, 445
Schools—
Desks imported from United States..... 149
Domestic arts, San Jose..... 296
Message of the President..... 148
Steamship service on Pacific coast..... 934
Telephone line completed..... 934
Ulloa, Dr. Juan J..... 691
Wages to laborers increased..... 149
Water, potable, to be supplied districts of Oeste and San Rafael..... 761
Waterworks under construction at Estrada..... 296
COTTON IN THE DOMINICAN REPUBLIC..... 677
CUBA.
Agriculture—
Cuba for the man of moderate means..... 32
"Fomento Pecuario" organization..... 762
Message of President..... 936
Aqueducts—
Guines, construction work suspended..... 609
Remedios and Caibarien, construction authorized..... 297

CUBA—Continued.
Aqueducts—Continued. Page.
Santiago, plans for construction 762
Santiago, contract awarded 297
Asphalt property denounced in the Province of Matanzas 297
Association for the legal protection of workmen 935
Avicultural exposition to be held in Habana 608
Banks—
National bank establishes branch in city of Habana 447
Spanish bank opens branch at Yaguajay 608
Budget, 1912–13 608
Cabinet, personnel of 149
Canalization of the Roque River, extension of concession for the 297
Cattle, bureau established for registration of 150
Coconut disease 608
Commerce—
Commerce of Cuba for 1912 896
Increase in Cuba's foreign trade 718
Compañía de los Puertos contract revoked 762
Consular service, income of 936
Consulate general in New York, receipts for 10 years of 607
Court of Habana, extra chamber created in audiencia of 609
Cremation plant to be inaugurated 608
Currier, Rev. Charles Warren 69
Customhouses, Matanzas, import duties of 150
Electric-light service—
Isabela de Sagua, plant to be installed at 448
Jaruco, application to establish plant at 297
Los Arabes, application to establish plant at 297
Santa Isabel de las Lajas, plant to be established at 150
Exposition, national, to celebrate opening of Panama Canal 608
Exposition, national, to be held in Habana 761
Factory, La Fábrica de Papel de la Habana 714
Farming: Cuba for the man of moderate means 32
Financial condition of Republic 936
Financial status of treasury, message of President 296
Foreign claims 935
Habana—
Academy of Medical, Natural and Physical Sciences, awards prize 447
Diario Autentico del Sitio de la 867
Expenditures, 1913–14 297
Revenues, 1913–14 297
Horses, bureau established for registration of 150
Hospital, civil, to be established at Guantanamo 609
Ice factory inaugurated at Batabano 609
Immigration, plans for increasing 936
Judiciary system, President urges reform of 936
Lectures on tropical diseases by Dr. Agramonte 608
Loan advised by President 936
Loan for sewering and paving work 608
Maine, the, appropriation for construction of monument to 150
Message of President 149, 296, 935
Microcycas calacoma, a rare plant found in Cuba 725

CUBA—Continued.
Mines and mining— Page.
Copper mine at Corral Nueva.... 297
Iron property denounced in Province of Matanzas.... 297
Vast ore deposits of Cuba.... 720
Minister to the United States, reception of.... 43
Monuments in honor of José Marti.... 297
Official Gazette, bureau of.... 448
Opium, protocol, international, signed.... 150
Parcels post—
Recommendation in President's message.... 936
Treaty with Costa Rica, England, Belgium, and Venezuela.... 936
Peace Congress, Universal.... 936
Penal code, revision of.... 762
Pharmaceutical rules.... 762
Police, chief of.... 608
Port board, rules governing.... 608
Port Co. concession, annulment of.... 935
President Menocal's summer residence.... 447
Railways—
Caibarien to Yaguajal and Mayajugua, opened to traffic.... 447
Cardenas to Cochinos Bay, line to be constructed from.... 447
Cuban Central, extension of.... 608
Guantanamo to Baracoa, plans and estimates to be submitted.... 150
Habana and Cienfuegos, express service inaugurated between.... 447
North American Sugar Co.... 447
Sierra Morena to Coralillo, extension of.... 608
Van Horne and his Cuban railway.... 866
Western railway to the Port of Arroyos de Mantua, probable extension of.... 447
Revenues, Habana, 1913-14.... 297
Riverside.... 718
Roque River, extension of concession for canalization of.... 297
Sanitarium, tuberculosis, plans for establishing a.... 608
Schools—
Agricultural school, Santiago.... 297
Matanzas Agricultural School.... 762
Secret services allowed President, discontinuance of.... 296
Sewering and paving work.... 608
Shooting range purchased by Government.... 762
Statue in honor of Jose Maria Heredia to be unveiled in Santiago.... 447
Sugar—
Mill under construction at Abarca.... 150
Mill to be erected near Santiago.... 448
Mills, erection of.... 762
Supreme court, justice of.... 150
Tariff of Cuba.... 936
Telegraphs—
Government lines, appropriation requested for repair of.... 936
Wireless-telegraph treaty with the United States.... 448
Telephone service—
Government lines.... 297
Long-distance communications.... 609

CUBA—Continued.
Treaties— Page.
Commercial 936
Parcels-post 936
Wireless-telegraph treaty with the United States 448
Tropical diseases 608
Tuberculosis sanitarium 608
Zapata Swamp, drainage of 447
Zoological and botanical garden to be established in Habana 448
CUBA FOR THE MAN OF MODERATE MEANS 32
DENTAL INSPECTION IN BRAZILIAN SCHOOLS, MEDICAL AND 221
DINNER BY MINISTER OF DOMINICAN REPUBLIC 533
DOMINICAN REPUBLIC:
Agricultural experiment station 610
Aqueducts—
Contracts with Lithgow and Moore 609
Santo Domingo, plans for 449, 609
Army, term of service in the regular 449
Atheneum organized in Federal capital 609
Budgets of Santo Domingo, 1913 151
Cabinet, personnel of 150
Census, work begun on next 448
Club, sporting, plans for establishing 609
Columbus, Christopher—
Bones of Columbus at Panama-Pacific Exposition 711
Conservation of works of 610
House of 449
Commerce—
Commerce of the Dominican Republic for 1912 408
School opened in Santo Domingo 151
Constitution, modification of 610
Construction work, rules governing 610
Consular invoices 937
Copper mines 610
Cotton in the 677
Electric light and power plants—
Contracts for building 609
Inauguration at Puerto Plata 298
Firearms and ammunition permits 151
Freight manifests and consular invoices 937
Gold mines 610
Governor of Province of Santo Domingo 151
Highways—
Bids for construction of 610
Santo Domingo to Pedro de Macoris 151
Ice plant to be installed in Monte Christi 449
Immigration law 937
International holiday, movement to declare October 12 764
Irrigation of Azua 610
Joubert, Emilio G 449
Military and naval school 610
Milk, law regarding adulteration of 449

DOMINICAN REPUBLIC—Continued.
Mines and mining— Page.
Gold, copper, and other 610
Principal mines 763
Progreso mining claims 937
Minister of the Dominican Republic, dinner by 533
National Congress 763
National museum to be established in Santo Domingo 150
National parks, lands of ancient cities to be used as 448
Peynado, Sr. Don Francisco J.: Notable speech 54
Postage stamps—
Commemorating centenary of birth of Juan Pablo Darte 298
Commemorating founding of "Trinitaria" by Duarte 448
New issue of 937
Printing and lithographic establishment opened at Puerto Plata 449
Public works, appropriation for construction of 763
Railways—
Central Dominican Railway leased 764
Manzanillo to La Vega, construction approved 298, 449
San Pedro de Macoris to San Lorenzo Bay, contract for 610
Receiver General Walker W. Vick, annual report of 850
Roads, wagon and cart, to be constructed through Republic 298
Santo Domingo, the regeneration of 724
Schools—
Commercial school opened in Santo Domingo 151
Military and naval school 610
Society, international, for the conservation of the works of Columbus 610
Steamship service established by the Donald Steamship Co 937
Steamship service planned by Dutch Steamship Co. with principal ports of Republic 298
Telegraph station, wireless, installed in Federal capital 610
Theater, The Great Colon, materials and furnishings 151
Treaty, arbitration, between Brazil and Dominican Republic 448
Water service, Santo Domingo 449
Weights and measures, law regarding decimal system of 448
DUTCH GUIANA, RESOURCES OF 818
ECUADOR:
Advertising clubs, delegate to convention of 612
Agricultural exposition inaugurated in Quito 450
Agronomic School, Quito 299
Aguardiente tax to be used for charitable purposes 152
Alpaca and Vicuna 108
Budget, 1913 765
Budget of Riobamba for fiscal year 611
Carbo, Sr. Don Luis Felipe 62
Climate of Guayaquil 299
Cold-storage company established 152
College, Vicente Rocafuerte National, English to be taught in 152
Commerce, foreign, of Guayaquil, 1912 611
Congress of students, tentative rules of 611
Congress of students of Great Colombia 152, 300
Consulate to be established at Yokohama 939
Debt, public 765

ECUADOR—Continued.
Education— Page.
English to be taught in normal schools 152
Foreign teachers for normal schools 152
Higher education 451
Electric-light service—
Chone, plant to be installed at 152, 611
Cuenca, plant to be installed in the city of 939
Exposition, agricultural, Quito 450
Football games, prizes awarded victors in 612
Galapagos Islands to be studied by geographic society 612
Golden, the, Age in Ecuador 873
Guayaquil—
Climate of 299
Population of 612
Highways—
Esmeraldas and Ibarra, highway opened between 611
Jipipapa to Port Machalilla, Government to construct highway between 939
Hospital for fever patients at Latacunga 152
Hospital, Burgos Building, Guayaquil 450
Liquors, additional tax on foreign and domestic 151
Loan authorized for improvements in Guayaquil 938
Loan authorized for construction of Curaray Railway 938
Message of President 764
Minister to the United States—
Biography 358
Reception of new minister 239
Welcome to 251
Monument to Ecuadorian priest 611
Monument to French scientists 299
Oil, exploration and exploitation of 612
Parcels-post convention between Ecuador and Panama 938
Park, Flores, inaugurated in Latacunga 611
Peace conference, St. Louis, Mo., representatives to 152
Petroleum, President to regulate exploitation of 939
Population of Guayaquil 612
Post offices, parcel posts, and postal money orders 765
Publications—
Newspaper, weekly, established at Porteviejo 152
Newspaper founded in Quito by typographic association 152
"Studies on the civil code of Chile" to be published by Ecuador 938
Works on the jurisprudence of Ecuador 938
Quito, the war of 265
Railways—
Babahoyo railway, bids for construction of 612
Curaray Railway 938
Huigra to Cuenca 765
Huigra to Cuenca railway, route of 938
Interocean Railway Co.'s project unacceptable 151
Los Rios, contract for construction of 612
Manta to Santa Ana railway inaugurated 450
Transandine, route of 612
Red Cross military hospital to be erected at Guayaquil 938
Revenues, 1912 765

ECUADOR—Continued.
Schools— Page.
Agronomic, Quito 299
Arts and crafts 611
English for normal school for girls 152
Normal schools, foreign teachers for 152
Statistics 764
Sea wall, construction of 612
Steamers, national line of, to be established by Government 612
Südamerikanische Prähistorische Tempel und Gottheiten 113
Taxes—
Aguardiente tax to be used for charitable purposes 152
Liquors, foreign and domestic 151
Telegraph service, statistics concerning 765
Treaty of amity with Bolivia ratified 611
Treaties, various 764
Universities 451
University, Central, of Quito 939
Water service, potable—
Riobamba, inauguration of supply at 152
Tulcan, plans for 611
Yellow fever, rules for combating 611
ELECTRIC (HYDRO) OPERATIONS IN SOUTH AMERICA 633
FISHES, THE, OF SOUTH AMERICA 781
FLAGS AND COATS OF ARMS OF THE AMERICAN REPUBLICS:
United States of America 833
Uruguay 241
Venezuela 544
GOVERNING BOARD, NOTABLE SPEECHES BY MEMBERS OF:
Calderon, Sr. Don Ignacio, Bolivia 49
Peynado, Sr. Don Francisco J., Dominican Republic 54
Pezet, Sr. Don Federico A., Peru 51
GUATEMALA:
Agricultural products 300
Anniversary of Central American independence 766
Automobiles, taxes on 767
Banks—
Agricultural Mortgage Bank authorized to increase capital 766
Bank of Guatemala, statistics of 613
Births, 1912 153
Boundary commission 453
Bridge to be erected over Samala River 766
Budget, 1913–14 452
Cabrera, Sr. Lic. Estrada, decorated with Legion of Honor 765
Coffee, export tax on 451
Commerce—
Commerce of Guatemala for 1912 584
Foreign, 1912 300
Commercial activity 300
Commercial Guatemala 722
Companies organized 153
Congresses, international, presidential appointments to 451
Congresses, international, invitations from 452
Conservatory of Music, National 614

GUATEMALA—Continued.
Consuls— Page.
France, Argel 766
Las Palmas, Canary Islands 614, 766
Conventions ratified 452
Customs Congress, Paris, delegate to 940
Deaths, 1912 153
Debt, public, interest on 454
Educational statistics 613
Electric-light service—
Plant installed at Palin 300
Retalhuleu 452
Various installations 452
Expositions—
Agricultural and Industrial Exposition, London, July, 1914 939
Annual exposition of products 301
Factory, shoe, concession solicited 301
Feast of musicians 766
Firearms, rules governing the carrying of 300
Government printing office, work of 153
The Hague—
Appointments to Permanent Arbitration Court at 766
Drafts, etc., signed ad referendum 614
Members of the Permanent Court at 613
Highway from San Felipe to Quezlatenango 940
Holiday, public, October 12 940
Hospitals, Government, statistics concerning patients 152
Insurance Co., the Yorkshire 614
Loan, Guatemala City authorized to contract a long-time 613
Marriages, 1912 153
Medical Congress, delegates to the Sixth Pan American 613
Merchandise imported from Belize to Peten—
Rules governing 613
Tax, additional, on duty collected 766
Mexican minister to Guatemala 300
Mining claims denounced 452
Minister to Salvador 940
Monument to Christopher Columbus 614
Opium convention ratified 614
Patent issued to Smith Refrigerating Co 766
Portugal to establish diplomatic mission in Guatemala 765
Postage stamps ordered from England 451
Products—
Agricultural 300
Annual exposition of 300
Railway, Pan American, near completion 766
Revenues, municipal, 1912 153
Schools—
Agricultural school maintained by Government 939
Benches and desks purchased from the United States 614
Statistics concerning 614
United States Students in Guatemala schools 674
Shoe-factory concession solicited 301

GUATEMALA—Continued. Page.
Silver imported into Republic, law concerning..... 614
Singer Sewing Machine Co. establishes branch in Guatemala..... 451
Sulphur springs at Totonicapan..... 614
Supreme Court of Justice of Central America, judges of..... 452
Tax on coffee, export..... 451
United States merchants visit Guatemala..... 300
Water supply, potable, for Barberena..... 452
GUIANA, DUTCH, RESOURCES OF..... 818
HAITI:
Appropriation, emergency, for Department of the Interior..... 454
Arbitration convention between German and French legations..... 767
Archbishop, rebuilding palace of..... 767
Barracks, Dessalines, dedication of..... 941
Bills passed by Senate..... 617
Brazilian vice consul, exequatur delivered to..... 154
Budgets—
Convention for year 1913–14..... 766
Law for fiscal year 1913–14..... 940
Cabinet, personnel of..... 154
Cape Haitien, street and shore front improvements..... 617
Chargé d'affaires to Cuba..... 454
Civil companies, decree concerning..... 301
Commerce of Haiti for 1912..... 415
Commerce with the United States, 1911 and 1912..... 615
Commercial companies, decree concerning..... 301
Congress, special session of..... 454
Congress, closing session of twenty-seventh..... 617
Constitution to be amended..... 453
Constitution, report of commission to consider revision of..... 617
Consul general, New York, appointment of..... 301
Consular appointments..... 454
Contracts awarded by Congress..... 767
Court of cassation..... 767
Debts, foreign, payment of..... 454
Diplomatic appointments..... 454
Diplomatic ceremonial, chief of..... 454
Dominican Republic, exequatur delivered to consul of..... 154
Export products..... 940
French claims to be settled by arbitration..... 768
Imports of American furniture..... 455
Income tax, reduction of..... 767
Industrial companies, decree concerning..... 301
Laws passed by Haitian Congress..... 767
Legation, United States, Washington, appointment of secretary to..... 301
"L'Organisme dans les infections"..... 301, 455
Message of President..... 154
Mills of Haiti, The Great, decree concerning..... 302
Minister to the United States—
Appointment of..... 301
Reception of new minister..... 539
The new minister..... 703
Monetary unit, national..... 453

HAITI—Continued.
National Palace— Page.
Architects' plans 154
Plans selected 616
Ottoman claims 768
Panama-Pacific International Exposition 941
Paraguay designates consul at Port au Prince 453
Passports, law relating to 617
Peru designates consul at Port au Prince 453
Port au Prince—
Fire in business section 154
Waterworks planned for 453
President of Haiti entertained by minister from the United States 617
Public works, bill for construction of 941
Residence, declaration of 940
Schools—
Bids for construction of buildings 941
Normal schools for men and women 767
Statistics 454
Secretary of the Interior and Police, appointment of 301
Secretary of Public Works and Agriculture, appointment of 301
Senate building, architects invited to compete for new 617
Stock companies, decree concerning 301
Taxes—
Automobiles 767
Income 767
Telephone service—
Contract relating to 767
Port au Prince, concession for establishing lines in 941
Tobacco, tax levied on 941
United States minister entertains President of Haiti 617
Wharves—
Jacmel, contract for building wharf at 767, 940, 941
Port de Paix, contract for cement wharf at 941
Waterworks—
Petit Goave 767
Port au Prince 453
HARVARD IN PERU 56
HONDURAS:
Aguardiente, lawing concerning 618
Aqueduct planned for Santa Rosa 618
Bank, Agricultural Commercial, to be established in Tegucigalpa 455
Brewery to be established at La Ceiba 455
Bridges—
Contract for bridge over Jutiapa River 769
Railway bridge to be erected over Ulua River 768
Budget, 1913–14 455
Bust to Gen. Bonilla 456
Bust to Honduran poet, Juan Ramon Molina, to be erected 456
Calleja, Dr. Jose Jorge 943
Cigars, director of school for manufacture of 619
Coal and petroleum concession granted a citizen of the United States 303
Coconuts, concession for erection and exploitation of plant for preparing 302

HONDURAS—Continued. Page.
Coffee trees in municipality of Danli 619
Consular service, convention concerning Central American 456
Convention concerning Central American consular service approved 456
Deputies to National Congress 155, 456
Distillery, concession for the establishment of a 768
Electric lights to be installed at Puerto Cortes 769
Factories—
Shoe, Tegucigalpa 303
Soap and candle factory to be established in Gomayaguela 303
Flour mill, free importation of material for erection of 155
Foreign documents, legalization of 155
Geography of Honduras, Ulises Meza Calix' 155
Gold—
Auriferous sands discovered in Mosquitia 303
Gold placers discovered in Mosquitia 619
Tarros, jurisdiction of the municipality of Macuelizo 619
Highway planned from La Ceiba to Olanchito 942
La Ceiba, Department of Atlantida 942
Machinery imported free of duty 619
Mines and mining—
Auriferous sands discovered in Mosquitia 303
Central America & Martitas Mining Exploration Co 943
Concession for gold placers and gold and silver ores 619
Gold placers discovered in Mosquitia 619
Mining concession granted in Department of Olancho 618
Petroleum and coal concession granted citizen of the United States 303
Petroleum concession, Department of Comayagua 617
Yuscaran mines 943
National Congress, deputies to 155, 456
Nitrate, sale of 456
Olancho County 574
Opium convention, international, approved 303
Petroleum—
Concession granted a citizen of the United States 303
Contract granted American citizen to prospect for 618
Exclusive concession, Department of Comayagua 617
Exploitation of the Guare Zone 769
Port, free, congressional bill providing for a 303
Postal convention with Chile ratified 455
Puerto Cortes, public improvements planned by municipality of 769
Railways—
Pan American Railway, survey of 155
Receipts 154
Trujillo railway concession 942
Road, cart, to be constructed 619
Salvadorean Congress thanked for sympathy in death of President Bonilla 456
Sanitary convention, international, approved by Congress of Honduras 154
Schools—
Annual exposition 456
La Ceiba, Department of Atlantida 942
Modern school for girls to be erected 769
Night school for artisans, Tegucigalpa 303

HONDURAS—Continued.
Schools—Continued. Page.
School of agriculture to be organized at Siguatepeque..... 768
School for manufacture of cigars..... 619
Shoe factory, Tegucigalpa..... 303
Soap and candle factory to be established in Gomayaguela..... 303
Steamship service from New Orleans to Roatan and Trujillo..... 303
Sugar-cane industry..... 619
Surgical and Orthopedic Institute..... 456
Tariff, new, of Honduras..... 726
Transportation conditions of La Ceiba..... 942
Transportation service, freight and passenger..... 618
Treaty, Honduran-British, of amity, commerce, and navigation..... 456
Trujillo, climate, water supply, etc..... 942
Waterworks of El Corpus, installation of..... 942
Wharf at Trujillo Bay, construction of..... 942
HYDROELECTRIC OPERATIONS IN SOUTH AMERICA..... 633
INSTITUTE, THE PEOPLE'S, OF PIEDRAS NEGRAS, MEXICO..... 350
IVORY, VEGETABLE, TAGUA..... 192
LAKE ERIE, A YOUNG HERO OF THE BATTLE OF..... 235
LAKE HUACACHINA, PERU..... 801
LA PAZ, PICTURESQUE, THE CAPITAL OF BOLIVIA..... 209
LATIN AMERICA:
Assistant Chief of the Division on Latin American Affairs..... 711
Commerce: Growth of consuming power..... 708
Conference on Latin America at Clark University..... 704
En Amérique Latine..... 729
"Flying" and Latin America..... 856
La Instrucción Publica en la America Latina..... 716
Latin America: Its rise and progress..... 403
Panama-Pacific International Exposition..... 78
Railways, Latin American, present and projected..... 863
Study of Latin American history in the United States..... 711
Teachers, opportunities for Spanish-speaking..... 261
Through Latin lands..... 863
Universities and special schools..... 402
MAGAZINE ARTICLES:
See Pan American in the magazines.
MANILA SHIP AND TRADE TO AMERICA, THE..... 341
MASS AT WASHINGTON, D. C., PAN AMERICAN..... 827
MEDICAL AND DENTAL INSPECTION IN BRAZILIAN SCHOOLS..... 220
MEXICAN FOREIGN OFFICE ARCHIVES..... 657
MEXICO:
A busy time in Mexico..... 581
Academy of Medicine, premiums offered by National..... 458
Agricultural, First, Congress of Mexico..... 457
Alfalfa and its cultivation..... 395
Ancient Mexico reviewed by a modern traveler..... 113
Archaeology and Ethnology, International School of American..... 457
Archives, the Mexican Foreign Office..... 657
Banks—
Assets, total..... 156
Bank of London and Mexico moves into its new building..... 944

MEXICO—Continued. Page.
Cactus, bark of 944
Carapan River 457
Chicle, concessions for exploitation of 156, 456
Child labor 770
Coin, exportation of gold and silver coin 619
Colonization—
Agricultural colony, concession for establishment of 770
Land for colonization purposes 770
Station of Chiapas 619
State of Tabasco 619
Coming Mexico, the 113
Commerce—
Commerce of Mexico for 1912 418
Taxes on foreign commerce 770
Congresses—
Congress of primary education, delegates to 769
Dental congress, delegates to 769
First Agricultural Congress of Mexico 457
International congresses, participation in 769
Corn, Indian, free importation of 304
Cotton, establishment of factory for preparation of antiseptic 620
Cyanide practice in 113
Dental congress organized 943
Dentistry, law concerning study of 620
Educational congress, recommendations of 944
Election, special, of President and Vice President 304
Escuela International de Arqueologia y Etnologia Americanas año Escuelar de 1911 à 1912 268
Factories—
Cloth factory, Arandas, State of Jalisco, recommended 943
Cotton, antiseptic 620
Glass 620
Rubber factory, extension of contract for operation of 620
Solid fuel 458
Fishing industry, Gulf of Cortes 156
Forests, Government contract for exploitation of 304
Forestry 770
Fuel, solid 458
Glass factory, request to found 620
Guarantee Co. in contract with Mexcio 304
Henequen, exports from Progreso 156
Holiday, national, October 12 769
Hunting with the Huicholes 725
Industry, new 156
Institute, People's, of Piedras 350
Irrigation—
Concessions for use of water from—
Culiacan River 157
Grullas or Estancia Creek 620
Potosi River 621
San Juan 620
Sinoloa, Oconi, Urepetiro, and Piaxtla Rivers 458
Tula River 304

MEXICO—Continued Page.
Labor, hours of 770
Land, national, divided into lots for sale 770
Lighthouse service 458
Lillies in Lake Chapala 156
Loans—
£20,000,000 loan authorized 304, 770
Speyer & Co., of New York, repayment of amounts loaned by 770
Lumber industry—
Cabinet woods, concession for exploitation of 156
Magistral district 724
Manufacturing Co., Industrial Cloth, net profits, 1912 305
Message of provisional President 769
Mexican Magazine, the 106
The Mexican Pacific 725
Mexican Steel & Chemical Products Co 156
Mexico City, traffic regulations for 621
Mines, title deeds issued to 770
National Library of Mexico 113
Navigation of lakes and rivers hindered by lillies 157
Onyx Co., Pedrara, lower California 104
Pensions, bill providing for 305
Post-office statistics 770
Potassium 156, 457
Pulque, law regarding sale of 621
Railways—
Belgium syndicate solicits concession 305
Concession for construction between Mexico and California in Tijuana 620
Concession to Mr. B. M. Hatfield canceled 612
Contracts for construction of new roads 458
Increase in system 770
National Railways, net receipts, 1912–13 620
Revenues—
Import duties collected, May, 1913 620
Year ended June 30, 1913 770
Rivers declared property of Government 457
Rubber factory, extension of contract for operation of 620
Rubber, Para, in Mexico 716
Saline deposits 156, 457
Schools—
Archæology and Ethnology, International School of American 457
High School, Mexico City, students of science, literature, and art 305
Message of provisional President 769
Springs of Xochimilco, near City of Mexico 943
Tariff rates, duty on 944
Telegraphs—
Wireless apparatus from Europe to replace old one in Mexico City 620
Wireless station, Telefunken, to be erected at Minatitlan 304
Wireless station, Telefunken, port of Tuxpan 157
Telephone service—
Extension of 156
Mexico City, Tlalnepantla and Cuautitlan, service to be established between 304

MEXICO—Continued. Page.
Trade-marks, assignments of 770
Traffic regulations for City of Mexico 620
Trails, new, of Mexico 266
Verdia, Sr. Don Perez, envoy extraordinary and minister plenipotentiary. 694
Wharf to be constructed at Payo Obispo 155
Water concessions 770
Water supply for Mexico City 943
Working classes, dwellings for the 770
Zinc—
Concessions for manufacture of 156
Smelter, extension of contract for establishment of 458
MILITARY COLLEGE AT RIO DE JANEIRO, THE 502
MINISTERS FROM, RECEPTION OF:
Cuba 40
Ecuador 239
Haiti 539
Nicaragua 40
Panama 40
Salvador 539
MINISTER OF THE DOMINICAN REPUBLIC, DINNER BY 533
MÜLLER, DR. LAURO S., TO THE UNITED STATES, MISSION OF 1
NATIONAL HOLIDAYS OF THE AMERICAN REPUBLICS:
United States of America 836
Uruguay 244
Venezuela 547
NATIONAL HYMN OF ARGENTINA, THE 44
NICARAGUA:
Acoyapa, new judicial district of 460
Agriculture, board of 771
Agronomic engineer, Alfred Urzua 622
Anthem, national, to be changed 622
Automobile road under construction between Bluefields and San Miguelito. 458
Banana industry 305
Bank, National, of Nicaragua, increased capital of 945
Budget 621
Canal, probabilities of a new 720
Central American International Office, duties of 621
Chamorro, Sr. Gen. Emiliano: Reception of new minister in the United States 42
Coal mine, district of Siquia 771
Coffee, export duties on 306
Consular service, revision of convention on 621
Consular invoices 771
Contract with Brown Bros. & Co. and J. & W. Seligman & Co 459
Customs waybill, effective July, 1913 306
Designates to the President 459
Educational institutions, Central American 621
Electric light and power plant to be installed at Rivas 622
Fort of Coyatepe, contract for construction of 944
Industries, organization of school for development of 772
Land, tax per hectare 944
Law, practice of, by unnaturalized foreigners 945
Lumber, mahogany industry 305

NICARAGUA—Continued.
Mahogany— Page.
Industry..... 305
Logs..... 945
Managua, paving of streets..... 459
Map of telegraph and telephone lines..... 622
Martial law..... 621
Message of President..... 621
Military School, Managua..... 622
Mines, coal, district of Siquia..... 771
Mining Co., the Belle of the South..... 459
Ministers—
Costa Rica, minister resident from..... 158
United States, reception of minister to..... 42
National Assembly—
Committees of..... 621
Officers of..... 621
Parcels-post service..... 622
Postage stamps..... 459
Postal tariff..... 157
President empowered to legislate..... 459
Publications—
Newspaper, El Noticiero, Managua..... 772
Newspaper, La Tribuna, founded in Managua..... 306
Railways—
Locomotives ordered from the United States..... 622
National Railways, net earnings of..... 771
Schedule changed between Managua, Granada, and Corinto..... 622
Transcontinental railway, plans submitted for a..... 622
United Fruit Co. to build new line..... 305
Road, automobile, under construction..... 458
Salt deposits at Paso Caballo..... 306
Schools—
Exchange of students with school in United States..... 772
Law school at Managua, Dr. A. Falla of..... 945
Military school..... 622
School for women..... 459
Shipping on the Atlantic coast..... 459
Students with school in United States, exchange of..... 772
Sugar cane plantation and refinery to be established near Laguna de Perlas. 460
Supreme court..... 458
Tanning Co., Bluefields (Ltd.)..... 459
Tariff duties increased..... 944
Taxes, Jinotepe, municipality of..... 158
Telegraph—
Map of lines..... 622
Rates for messages with Central American points..... 306
Telephone service—
Map of..... 622
San Juan del Norte to Garra Colorada, Costa Rica, construction of line from..... 622
NOTABLE ADDRESS BY PRESIDENT WILSON..... 684

PANAMA: Page.
Agricultural development in 469
Agriculture, tropical 772
Budget for 1913 and 1914, estimated revenues 158
Cable Co., Central & South American, city of Panama 460
Coconut industry 946
Consul of Panama at Callao 624
Commercial organizations visit Panama 713
Copper mines, Juncal Canyon 623
Copyright convention 461
El Canal de Panama 722
Electric light and power plant to be installed in Panama city 460, 623
Exposition, Panama National 623, 624, 772
Extradition law 307
Gardening in 108
Gold mine denounced near Cocle River 307
Governors, appointments of 460
Hague, Permanent Court at The 624
Holiday, national, discovery of Pacific Ocean 772
Immigration, Chinese, law regulating 624, 946
Japan and 863
Land Commission, Joint—
Dr. Rowe's impressions of commercial possibilities 772
Dr. Leo S. Rowe resigns from 623
Lands, Government 306, 623, 946
Mendoza, Dr. Carlos Antonio, ex-President of Panama 693
Mines and mining—
Gold mine denounced 307
Province of Los Santos 772
Silver and copper mine, Juncal Canyon 623
Minister to the United States, reception of 41
Morales, Sr. Dr. A. Morales: Reception of new minister in the United States 41
Panama Canal—
Central America and the 870
Culebra cut slides, the truth about 724
Employees, foreign, offered inducements to remain in Republic 624
On landslides 863
Our canal in Panama 579
Panama Canal: Its possible effect on the Central American Republics 579
Sanitation, the lesson of Canal Zone 866
Panama, past and present 399
Pedagogic congress to meet annually 622
Railways—
Preliminary surveys, etc., for railways in Provinces of Chiriqui, Cocle, and Los Santos 307
Survey of railway in Province of Los Santos 772
Remon, Sr. Don Nicolas 691
Revenue for 1913 and 1914 158
Rowe, Dr. Leo S.—
Impressions of commercial possibilities in 772
Resigns from Joint Land Commission 623
Sanitation rules of Colon and Panama 461

PANAMA—Continued.
Schools— Page.
Normal school for girls, Panama city..... 306
Professional school for girls organized..... 773
Silver mine, Juncal Canyon..... 623
Social side of Panama life, the..... 577
Sugar plantation, Aguadulce district..... 942
Supreme court, members of..... 773
Telegraph station, wireless, to be constructed at Colon by United Fruit Co. 623
Telephone line to be constructed between Gorgona with Chame..... 623
Steamer, new, to ply between Colon and Mediterranean points..... 624
Wharf, concrete and steel, to be constructed in Bay of Panama..... 159
Wharf market, contract for installation of..... 460
Water supply and purification system..... 714
World's greatest constructive spectacle..... 108
Zone policeman 88..... 399
PANAMA-PACIFIC INTERNATIONAL EXPOSITION, THE..... 313
PAN AMERICAN AFFAIRS, PROMINENT IN:
Acosta de Samper, Sra. Dona Soledad..... 59
Calderon, Dr. Climaco..... 688
Campos Salles, Sr. Dr. Manuel Ferraz de, demise of..... 75
Carbo, Sr. Don Luis Felipe..... 62
Casares, Sr. Don Miguel F..... 71
Clark, J. Shepherd..... 67
Codecido, Sr. Don Bernardino Toro..... 69
Currier, Rev. Charles Warren..... 69
Espinola, Dr. Manuel José..... 65
Finch, William Rufus..... 689
Leguia, Sr. Don Augusto B., ex-President of Peru..... 693
Lemoine, M. J. de, Bolivian consul general in Brussels..... 694
Lummis, Charles F..... 73
Margarit, Sr. Don Enrique R., consul general of Paraguay at Habana, Cuba. 695
Marion, Prof. Henri..... 691
Mendoza, Dr. Carlos Antonio, ex-President of Panama..... 693
Morris, Sr. Don Maximo Patricio..... 71
Ortiz de Rozas, Sr. Don Juan Manuel..... 690
Piérola, Sr. Nicolas de, ex-President of Peru, demise of..... 75
Remon, Sr. Don Nicolas..... 691
Rivas, Sr. Don Santiago..... 71
Sutton, Warner P..... 66
Ulloa, Dr. Juan J..... 691
Varas, Sr. Carlos, journalist, of Chile..... 695
Verdia, Sr. Don Perez, envoy extraordinary and minister plenipotentiary of Mexico to Guatemala..... 694
Victoria, Gen. Benjamin..... 64
PAN AMERICA IN THE MAGAZINES:
Alpaca and vicuna..... 108
American Journal of International Law..... 720
Archæology, The Romance of American..... 724
Argentina—
A local appreciation of Argentina..... 568
Argentine brewing barley, and Future of malt exportation to Argentina. 716
A thriving brewery in..... 714
Buenos Aires, improvements in..... 872

PAN AMERICA IN THE MAGAZINES—Continued.
Argentina—Continued. Page.
Buenos Aires Herald.... 578
Buenos Aires Standard.... 578
Buenos Aires to Valparaiso from a car window.... 714
Cereal growing in.... 725
Ice and refrigeration.... 574
La Ilustración Sud-America.... 395
La Vie Internationale.... 725
Mercurio (of Barcelona).... 870
Outlook, The.... 574
Un Lago de Sal.... 725
Baltimore in South America.... 720
Bananas—
The Bureau of Agriculture banana collection.... 873
Ripening bananas by electrical heat.... 107
Bolivia—
"Bolivia".... 716
Frontier work on the Bolivia-Brazil boundary.... 571
La Bolivia.... 718
Minerals of.... 714
Brazil—
Amazon Basin and the Guiana Highlands, Dr. Koch-Grünberg's exploration in the.... 714
Armored river monitors for.... 575
"Brazil".... 395
Brazil as seen by a great writer.... 725
Brazilian customhouse regulations.... 720
Brazilian diamond industry.... 870
Coal market—The Amazon River, How to control it.... 573
Customhouse regulations.... 720
Frontier work on the Bolivia-Brazil boundary.... 571
Morro Velho, temperatures at the.... 724
Para Congress, the story of.... 870
Rubber exhibition, Rio de Janeiro.... 870
Rubber in southern.... 108
Santos, the port of.... 870
Struggle between Brazil and the Far East.... 718
Chile—
Coal fields of southern Chile.... 722
Costo de la Vida.... 722
Evolución Histórica de las Letras Chilenas.... 872
Nitrate fields of.... 714
People of.... 720
Zigzag.... 396, 872
Chocolate, four hundred years of.... 872
Colombia—
Cattle industry of the Llanos.... 99
Coal on the Pacific coast of.... 96
El Progreso.... 396
Emerald field of.... 718
Mines and the Panama Canal.... 575
Placer mining on the Cauca River.... 577, 870
Progress in a Colombian Mission.... 873
Revista Nacional de Colombia.... 396

PAN AMERICA IN THE MAGAZINES—Continued.

Page.

Costa Rica—
"Costa Rica" 394
El Corozo y la Palma Real 725
La República de Costa Rica 722
Cuba—
El Figaro 396
Habana, Diario Autentico del Sitio de la 870
Microcycas calacoma—A rare plant found in Cuba 725
Progressive Cuba magazine 572
Railway, Van Horne and his Cuban 868
Riverside 718
Trade, increase in Cuba's foreign 718
Vast ore deposits of 720
Curacao, improving harbor of 393
Dominican Republic: The regeneration of Santo Domingo 724
Ecuador: The golden age in 873
Engineering and Mining Journal 716
Expedition to the Central Andes, Prof. Bowman's 389
Factory, ice, inaugurated at Batabano 609
Fishes, some of our food 868
Guatemala, commercial 722
Guiana and beyond, to the great falls of 873
Haiti, negro rule in 395
Honduras—
New tariff of 726
Olancho County 574
Inca Chronicle 716
Incas, the land of the 373
Latin America: La Instruccion Publica en la America Latina 716
La vicuña 872
Mexico—
Hunting with the Huicholes 725
The magistral district 724
Mexican Magazine, The 106
Mexican Pacific, The 725
Mexico Agricola 395
Para rubber in Mexico 716
Mining and Engineering World 720
Mining and smelting at high altitudes on the Andes 724
Nicaragua: Probabilities of a new canal 720
Onyx Co., Pedrara 104
Panama—
Gardening in 108
Japan and 868
Social side of Panama life, the 577
Water supply and purification system 714
Panama Canal—
Central America and the 872
Culebra cut slides, the truth about 724
El Canal de Panama 722
On landslides 866
Panama Canal, the: Its construction and its effect on commerce 385

PAN AMERICA IN THE MAGAZINES—Continued.
Panama Canal—Continued. Page.
Port of Seattle getting ready for the 870
Sanitation, the lesson of Canal Zone 868
The world's greatest constructive spectacle 108
Panama-Pacific International Exposition 864, 866
Pan American Union, the 574
Pan American Union and its annex 859
Paraguay, social life in 724
Peru—
Canyon of the Urubamba, the 393
El Progreso del Peru en 1912 870
Lima 396
Mines of 866
Peru and the opening of the Panama Canal 724
Peru to-day 868
Peruvian mummies 714
Placer, examining a Peruvian 575
Railway development in the south 866
Variedades of Lima 396
West Coast Leader 722
Pine forests of tropical America 720
Porto Rico: A few hints on cane agriculture in 868
Railways—
Latin American Railways, present and projected 866
Madeira-Mamore Railroad, geographical aspects of the new 391
Venezuelan Railway, the Great 391
Rubber—
Para rubber in Mexico 716
Present and future position of the rubber plantation industry 870
Rio de Janeiro rubber exhibition 873
A rubber exposition in California 716
Rubber and its manufactures 726
Rubber in southern Brazil 108
South America—
Alps, the South American 108
Building up South American trade 720
Cattle raising in 873
Road conditions in 718
Shoe and leather trade possibilities in 873
Through South America 718
South American Journal 722
Sponges, the nature, collection, and use of 575
Through Latin lands 866
Tigre, The Trail of the American 716
Titicaca, across, with a glimpse of Bolivia 563
Tropics, the proper diet in the 868
United States—
Los Angeles, the seaport of 379
Tariff on beef situation, effect of the new 872
Uruguay—
British hospital, inauguration of 718
Los Lobos Marinos en las Costas de la Republica Oriental 95

PAN AMERICA IN THE MAGAZINES—Continued.
Venezuela— Page.
Economic development of, the 382
Iron ore development, status of 93
Lactuario de Maracay 872
Venezuela, cattle industry of the llanos of 99
When sailors were sailors 725
White race in the Tropics, the 577
PAN AMERICAN MASS AT WASHINGTON, D. C 827
PAN AMERICAN NOTES:
Adams, Mr. Franklin, visit to the Far East 86
American Political Science Association 852
Anglo-American Exposition 853
Arbitration, resolution on international 359
Bacon's, Hon. Robert, tour of South America 251, 558, 701
Balboa, monument to 562
Baltimore business men, South American tour by 85
Baltimore, Maryland, importance of port 705
Boston Chamber of Commerce—
In South America 85
Medals to 258
Boys in business, to educate 259
Braddock, Maj. Gen., memorial tablet to 558
Brazil, improved steamship service to 852
Brazilian Students' Association organized 259
Bryan, Secretary, peace plan of 357
Bulletin of Pan American Union, delay in 250
Campos Salles, Sr. Dr. Manuel Ferraz de, ex-President of Brazil, demise of 81
Carnegie, Mr., in Paris, honor to 262
Central America, International Bureau 850
Chicago Association of Commerce in Buenos Aires 701
Chile, general statistics of 367
Chocolate, America's four hundredth anniversary of the introduction of 858
Club, The Century, of Rockford, Illinois 849
Columbus, bones of, at Panama-Pacific Exposition 711
Columbus Day in Boston 552
Commercial organizations visit Panama 713
Conference on Latin America at Clark University 704
Congress, National, of Brazil, history of 849
Congress of Colombian Students, Third International 703
Congress on School of Hygiene, Fourth International 92
Congress of Students, Eighth International 255, 365
Data on custom duties, to compile 369
Data, general descriptive, for distribution 365
Dental Congress at Rio de Janeiro, First Pan American 90
Department of State—
Counselor of 78
Latin American Division, new chief of 79
Secretaries of 78
De Pena, Sr. Dr. Carlos María, minister of Uruguay, receives degree of Doctor of Laws 76
Dry Farming Congress, International 562
Exhibition at Bristol, the international 264

PAN AMERICAN NOTES—Continued. Page.
"Flying" and Latin America 856
Gaillard, Lieut. Col., death of 846
Galveston's excursion to Central America 83
Gaynor, Mayor, of New York, demise of 555
Gonzales, Hon. William E 79
Governing Board—
Pan American Union 550
Informal gatherings of 697
Hale, Hon. Edward J 79
Intercollegiate Cosmopolitan Club 846
International Students' Conference 81
Jefferson, Hon. Benjamin L 79
Judicial Settlement of International Disputes, Society for 846
Knowles, Hon. Horace G., retiring United States minister to Bolivia 85
Kunz, Mr. George F., scientific work by 710
Latin America at refrigeration congress 557
Latin-America at the Panama-Pacific International Exposition 78
Latin-American Affairs, the Assistant Chief of the Division on 711
Latin-American consuming power, growth of 708
Latin-American history in the United States, study of 711
Long, Hon. Boaz W 79
McMillin, Hon. Benton 79
Malone, Hon. Dudley Field 78
Minister from—
Ecuador—
In the United States (biography) 358
Reception of 239
Welcome to 251
Haiti 703
Salvador—
Departure of 697
New minister 697
Ministers, United States, to—
Bolivia 365
Colombia 252
Costa Rica 257
Cuba 254
Dominican Republic 844
Dominican Republic, dinner to minister at Santo Domingo 700
Ecuador 700
Guatemala 853
Haiti 848
Honduras 704
Latin America 70, 361, 698
Nicaragua 361
Panama 707
Peru 710
Venezuela 850
Minister, Peruvian, in the west 252
Miranda, Gen., medallion of 371
Moore, Hon. John Bassett 78
Moreira, Dr. M. de, in Rio de Janeiro 255
Müller, Dr. Lauro Severiano 75

PAN AMERICAN NOTES—Continued. Page.
Naval cadets from South America, visit of 88
New York University confers degree upon Minister de Pena 76
O'Rear, Hon. John D 79
Osborne, Hon. John E 78
Pacific Coast Conference 858
Panama-Pacific International Exposition 357
Panama-Pacific International Exposition banquet 841
Panama-Pacific Exposition Commissioners in Latin America 553
Pan American, a, goes to China 371
Pan American Society, president of 555
Pan American Society of the Pacific Coast 705
Pan American Union—
Architectural Record, tribute from the 848
A word of encouragement 850
Governing Board 550
Governing Board, informal gatherings of 550
High artistic rank of building 560
Paraguayan and Venezuelan participation in the exposition 841
Peace plan of Secretary Bryan 357
Pepper, Charles M., in South America 560
Piérola, Sr. Nicolas de, ex-President of Peru, demise of 81
Porto Rico in 1913, progress of 856
Pulliam, Hon. William E., Receiver General of Dominican customs 86
Reinsch, Dr. Paul, minister to China 371
Rifle matches, international 258
Rivers and Harbors Congress, Tenth National 708
Roosevelt, Col. Theodore, proposed visit to South America 75
Roosevelt's, Col., visit to South America 357
Roosevelt, ex-President, in South America 555, 701
Root, Hon. Elihu: A great Pan American honored 358
Root, Senator, honors for 842
School, International, of American Archæology, Prof. Tozzer at 707
South America—
Illinois manufacturers to visit 842
In women's clubs 264
New travel rate to 854
South American press to visitors, attention of 844
Southern Commercial Congress 250, 552
Spanish in United States schools, teachers of 363
Statue of George Washington in Buenos Aires 254
Statue of Sarmiento in Boston 367
Students (Peru), exchange of 359
Teachers of Spanish in United States schools 363
Teachers, Spanish-speaking, opportunities for 261
Tozzer, Prof., at International School of American Archæology 707
Trade growth with South America 363
Trade in South American beef 367
Tropical diseases, expedition to study 88
Thomson, Hon. Thaddeus A 79
Tours to South America, the Raymond-Whitcomb 372
Uruguay, activities of 369
Venezuelan participation in the exposition, Paraguayan and 841
Vernier, Walter, visit to Central America 372

PAN AMERICAN NOTES—Continued. Page.
Vick, Receiver General Walker W., annual report of 850
Villanueva, Dr. Benito, Argentine Senator, to visit United States 697
Wells, William C 369
White, Hon. Charles D., retiring United States minister to Honduras 854
PARAGUAY:
Agricultural institutes, request to found 625
Arbitration convention with Brazil 774
Army, German instructors for 462
Artigas property presented to Uruguay 625
Asuncion, mayor of 461
Automobile service opened in Asuncion 947
Bakery, municipal 462
Banks—
Bank of the Republic establishes branch in Encarnacion 461
Bank of Spain and America established branch in Asuncion 461
Loans to farmers 462
Mercantile Bank of Asuncion, dividend paid in 1912 625
Notes in circulation from abroad 462
Barracks under construction at Paraguari near completion 461
Bolivia, boundary between Paraguay and 308
Boundary between Bolivia and 308
Boy Scouts organized 947
Brazilian minister to 308
Climate 307, 773
Colony, private German 947
Commerce of Paraguay for 1912 277
Consuls general—
Buenos Aires, Juan B. Goanaa, jr 947
Habana, Cuba, Sr. Don Enrique R. Margarit 695
Denmark, consul of, at Asuncion 461
Duties on necessaries of life 626
Ecuador establishes consulate general in Asuncion 774
Exports, 1912 160
Exposition, Paraguayan and Venezuelan participation in the 841
Factory, meat-canning 774
Ferryboat service inaugurated between Posadas and Encarnacion 625
Fleet, organization of 461
Flour, bill providing for free importation of 625
Gold, premium on 947
Imports, 1912 160
Independence, national centenary of, postponement of 947
Jorge Casaccia Co., by-laws 774
Land, price of 773
Laundry to be established in Asuncion 462
Legation, Rio de Janeiro, secretary of 947
Message of President 159
Meteorological observations 307
Military proving ground 773
Minister of War and Marine 462
Minister to the United States, addresses by 542
Oil Co., the West India 624
Pamphlet, "Apuntes Relativos al Porvenir de la Agricultura y de la Ganaderia en el Paraguay" 462

PARAGUAY—Continued. Page.
Paving of streets 947
Port works, Villeta, construction of 775
Postal Convention, Universal 774
President Schaerer visit military proving ground 773
Propaganda work in London 625
Railways—
Ascuncion to San Jose-mi, concession requested 624
Borja on the Encarnacion line to Iguazu 947
Convention between Paraguay and Argentina 774
Northeastern Paraguayan Railway plans new line 774
Puerto Suarez to Santa Cruz 624
Receipts and expenditures 462
Revenues—
General revenues collected first seven months, 1913 773
Increase in 462
January to March 31, 1913 308
January 1 to October 18, 1913 947
Stamps 462
Rifle target-practice ground established 947
River, Paraguay, depth of 625
San Martin, Gen., floral tribute to 947
Scholarship extended to student in Philadelphia 774
Schools—
Graded schools, building for 775
Ibyrary School, of Uruguay 625
Northern Regional School, inauguration of 947
Secretary to the President 774
Slaughterhouses, Asuncion 308
Social life in Paraguay 724
Society, Consumers' Cooperative 461
Students hold scholarships in England 462
Students sent to Europe and North America 774
Telegraphs—
Wireless stations, contract for 774
Wireless station established at Cerro de Lambare 461
Telephone line, concession for 773
Trade-mark law 774
Tramway service, electric, Asuncion 461, 625, 773
Treaties—
Extradition treaty between Great Britain and Paraguay 462
Extradition treaty between United States and Paraguay 462
Velázquez, Hector, minister to the United States, addresses by 542
Vessels, Government, to be sold 462
War and Marine headquarters 947
PEACE PALACE, THE NEW, AT THE HAGUE 830
PEOPLE'S INSTITUTE OF PIEDRAS NEGRAS, IN MEXICO 350
PERUVIAN RIFLE TEAMS, THE ARGENTINE AND 662
PERU:
Advertising Clubs of America, delegate to Annual Convention 308
Agriculture—
Cooperative societies recommended 309
Implements: Steam plow 309
School of 626

PERU—Continued. Page.
Alpaca and vicuna 108
Andes, highway across 948
Aqueduct at Huancayo, reconstruction of 309
Aviation school near Lima 463, 775
Boundaries—
Peru-Bolivia 626
Peru-Brazil 160, 626
Peru-Ecuador 626
Budget for 1914 775
Cabinet of 627
Canal, proposed construction of a 776
Canyon of the Urubamba 393
Census of the Province of Cuzco 463
Cereals, experiments with 948
Chilean workmen visit Peru 161, 776
Chorrillos contracts loan for public improvements 463
Commerce, foreign, 1912 626
Copper mines, Province of Antofagasta 308
Dental infirmary to be established 161
Electric-light service for Cuzco 309
El Progreso del Peru en 1912 867
Engineering Students, Association of 309
Expedition, Capt. Beasley's 722
Factories, law regulating 627
Guano Island, "La Vieja" 161
Harvard in 56
Highway across the Andes 948
Houses, model, for workmen 627
Inca and pre-Inca period 463
Incas, the land of the 373
Irrigation, available water sources for 627
Lake Huacachina 801
Leguia, Sr. Don Augusto B., ex-President of Peru 693
Lima to Iquitos, trip from 464
Loans—
Foreign loan of £6,000,000 recommended by President 775
Payment of 160
Madre de Dios Territory 626
Medical Congress, Fifth Latin-American 626, 948
Message of President 626
Mines and mining—
Coal and iron deposits, Provinces of Jauja and Huancayo 948
Coal mines, nationalization of 948
Coal mining districts, geological survey of 948
Code, committee to revise 309, 627
Copper mines in the Province of Antofagasta 308
Denouncements in neighborhood of Huanuco 161
Geological survey of coal mining districts
Mines of 863
Placer, examining a 575
Minister in the west 252
Medical Congress, Pan American, return of duties collected 463
National Congress convoked into regular session 160

PERU—Continued. Page.
National hymn 463
Oil, Province of Paita, explorations for 948
Orphan asylum planned for Cajamarca 309
Pato Canyon, report on hydraulic works of 776
Peru 112
Peru and the opening of the Panama Canal 724
Peru to-day 866
Peruvian mummies 714
Petroleum industry in Peru, the present and future state of the 268
Pezet, Sr. Don Federico A.: Notable speech 51
Piérola, Sr. Nicolas de 61, 81
Plow, steam 309
Port improvements 627
Publications: Magazine, "Juventud" founded in Lima 309
Putumayo region 626
Railways—
Development in the south 863
Extension of, Eten to Pimentel 776
Revenues, 1912 626
Rifle teams, the Argentine and Peruvian 662
Rubber experiment station 626
Ruins of Tiahuanacu, the ancient 513
Schools—
Arts and crafts, enlargement of 627
Aviation 463, 775
Religious instruction 160
Steamer "Iquitos" to be used in trade between Peru and Chile 463
Students, between Peru and Cuba, exchange of 626
Tax Collecting Co., by-laws approved 161
Telegraph, wireless, station at Ilo completed 776
Treaty, arbitration, with Japan, Sweden, and Portugal 627
University of San Marcos, law faculty of 949
Waterworks—
Huacho 627
Lima 627
Water Works Co. of Lima 463
RAILWAYS OF SOUTH AMERICA 165
RECEPTION OF NEW MINISTERS FROM:
Cuba 40
Ecuador 239
Haiti 539
Nicaragua 40
Panama 40
Salvador 539
RESOURCES OF DUTCH GUIANA 818
RIFLE TEAMS, THE ARGENTINE AND PERUVIAN 662
"RIVADAVIA," ARGENTINA'S DREADNAUGHT 681
RUINS OF TIAHUANACU, THE ANCIENT 513
SALVADOR:
Agriculture—
Government college, professor of arboriculture and floriculture 465
National Society for Stock Raising, subvention to 465, 629

SALVADOR—Continued. Page.
Arbitration convention made with Brazil..... 950
Artesian wells..... 464
Automobile service, San Salvador..... 777
Aviation—
Military school, plan to establish..... 465
Salvadorian aviator, Julio Yudice..... 777
Banks—
Financial conditions of..... 162
Occidental Bank of San Salvador, earnings of..... 777
Beer imported into Republic, 1912..... 629
Budgets—
1913-14..... 628
San Salvador, 1913..... 162
Bust of ex-President Rafael Campo unveiled..... 950
Cement, natural, found in Metapan quarries..... 310
Century plant..... 465
Cheese, foreign, consumption of..... 629
Coffee—
Exports, 1912..... 629
Sacks imported, 1912..... 310
Commerce of Salvador for 1912..... 432
Congress of newspapers, Rio de Janeiro, Brazil, delegate to..... 310
Consular fees..... 628
Consuls and consulates—
Consulate general established at Montevideo..... 310
Consuls general in foreign cities, offices of..... 162
Cotton fabrics, exports from Republic, 1912..... 777
Debt of Republic..... 776
Electric-light service for Coatepeque..... 950
Exports—
1912..... 629
New York to Salvador..... 464, 949
Gold mines, Cochgua volcano..... 465, 629
Granaries to be erected in capitals..... 309
Hydrophobia institute..... 465
Imports—
1912..... 629
First quarter, 1913..... 949
Land and marine conventions, signed in Costa Rica, ratified..... 310
Maguey..... 465
Marine (and land) conventions ratified..... 310
Mexico's exports to Salvador..... 777
Military medals..... 628
Mines and mining—
Asphalt mine in exploitation..... 950
Gold mines, Cochagua volcano..... 465, 629
Minister to the United States—
Departure of..... 697
New minister..... 698
Reception of new minister..... 539
Nitrate deposits at Guayamango..... 161
Patent law, new..... 628

SALVADOR—Continued. Page.
Patents of invention, new law of 949
Pensions, military 776
Publications: Newspaper "Diario del Salvador" opens branch office in New York 162
Railways—
San Miguel to Usulutan, inaugurated 627
San Salvador to La Libertad, plan for construction of 628
Train service between La Union and Usulutan 950
Usulutan railway completed to Ereguayquin 777
Revenues of San Salvador, 1912 310
Rice exported, 1912 628
Sacks imported into Republic, 1912 310
San Salvador, sanitation and paving of 629
Schools—
Arts and crafts 950
English, study of 950
Military aviation, plans for 465
Primary, statistics, 1913 629
Sewing machines imported into Republic 310
Slaughterhouses, municipal 777
Society, Cooperative, of Salvador 777
Students from Salvador in the United States 777
Telephone service between San Salvador and Tegucigalpa 310
Trade-mark law modified 628
Tramway to be built by Santa Ana Electric Light Co 950
Warehouses. (*See* Granaries.)
Workmen, fraternal organization founded for 628
SOUTH AMERICA:
Automobile in 327
Baltimore business men, tour by 85
Baltimore in South America 720
Beef, trade in 367
Boston Chamber of Commerce in 85
Cattle raising in 873
Commerce: Building up of South American trade 720
Expedition from Harvard (United States) to study tropical diseases 88
Fishes of South America, the 781
History, a, of South America. 1854–1904 401
Hydroelectric operations in 633
Illinois manufacturers to visit South America 842
Railways of 165
Road conditions in 718
Shoe and leather trade possibilities in 873
"South America" 730
South American in women's clubs 264
Through South America 718
Travel rates, new, to South America 854
Tropical diseases, Harvard expedition to study 88
SPEECHES BY MEMBERS OF GOVERNING BOARD, NOTABLE 49
STUDENTS, UNITED STATES, IN GUATEMALA SCHOOLS 674
TAGUA—VEGETABLE IVORY 192
TENDERS ON CHILEAN RAILWAY SHOP, CALL FOR 355

Page.
TOKENS OF FRIENDSHIP 347
TRADE TO AMERICA, THE MANILA SHIP AND 341
UNITED STATES:
American Political Science Association 852
Bacon, Robert, in South America 251, 558, 701
Baltimore business men, South American tour by 85
Bananas—
The Bureau of Agriculture banana collection 873
Ripening bananas by electrical heat 107
Boston Chamber of Commerce—
In South America 85
Medals to 258
Return of the Boston Chamber of Commerce delegates 230
Boys in business, to educate 259
Brazil: Tokens of friendship 347
California, the story of 727
Clark, J. Shepherd, editor of El Comercio, New York 67
Club, The Century, of Rockford, Ill 849
Coats of arms, flags and 833
Commercial convention in Mobile 353
Currier, Rev. Charles Warren 69
Finch, William Rufus 689
Flags and coats of arms 833
Gaillard, Lieut. Col., death of 846
Galveston's excursion to Central America 83
Hitch, Calvin M., Assistant Chief of Division on Latin-American Affairs 711
Holidays, national 836
Illinois manufacturers to visit South America 842
Intercollegiate Cosmopolitan Club 846
Judicial Settlement of International Disputes, Society for 846
Knowles, Hon. Horace G., retiring minister to Bolivia 85
Lake Erie, a young hero of the Battle of 235
La Nueva Orentación Politica en los Estados Unidos 722
Long, Hon. Boaz W 79
Los Angeles, the seaport of 379
Lummis, Charles Fletcher 73
Marion, Prof. Henri 691
Ministers to—
Colombia 252
Costa Rica 257
Cuba 254
Dominican Republic 844
Dominican Republic, dinner to minister at Santo Domingo 700
Ecuador 700
Guatemala 853
Haiti 848
Honduras 705
Latin America 79, 698
Panama 707
Peru 710
Venezuela 850
Petroleum exported from California to Chile 932
Pulliam, Hon. William E., Receiver General of Dominican customs 86

UNITED STATES—Continued. Page.
Rivers and Harbors Congress, Tenth National 708
Roosevelt, Theodore, proposed visit to South America 75
Roosevelt's, Colonel, visit to South America 357
Roosevelt, ex-President, in South America 555, 701
Root, Senator, honors for 842
Rubber exposition in California 716
Seattle, port of, getting ready for the Panama Canal 867
Stock exchange from within 400
Sutton, Warner P 66
Tariff on beef situation, effect of the new 870
White, Hon. Charles D., retiring United States Minister to Honduras 854
Wilson, President, notable address by 684
World conscience 728
UNITED STATES STUDENTS IN GUATEMALA SCHOOLS 674
URUGUAY:
Agriculture—
Amount of grain sown in 1911–12 779
Harvest, 1911–12 779
Agronomic station 951
Artigas property 625
Artigas tree 779
Arts, National Museum of Fine 630
Bank of the Republic—
Capital of 163
Popular credits 466
Beef, jerked, exports, 1912 631
Bridge near town of Pan de Azucar opened to traffic 310
Budget for 1913–14 629
Cabinet: Minister of Foreign Relations 162
Centenary of the instruction of Artigas, postage stamps commemorative of 163
Cheese trade with Brazil 310
Coat of arms, flag and 241
Cold-storage industry 310
Commerce, National School of 630
Commercial section of Department of Foreign Relations 466
Congress, international, of agricultural defense 311, 466
Congress of School of Hygiene, Fourth International 92
Cotton exported by port of Paysandu 311
Customs receipts, April, 1913 466
Customs revenues 311
Dental congress, Montevideo 162, 630
Dentistry, First National Congress of 630
Diplomats, foreign, regulations governing 951
Electric-light plants under construction 163
Exports—
Agricultural products 630
Beef, jerked, 1912 631
Hunting and fishery products 630
Mining products 630
Stock 630
Exposition, National Live-Stock and Agricultural 778
Flags and coat of arms 241
Government Palace, decree concerning building of 466

URUGUAY—Continued. Page
Hague, member of Permanent Court at The..... 631
Harvard expedition to study tropical diseases..... 88
Holidays, national..... 244
Hospital, inauguration of the British..... 718
Immigrants entering Republic, 1912..... 630
La Paloma, ocean-going steamer arrives at..... 630
Loans for public improvements—
Colonia, municipality of..... 631, 779
Federal Government..... 311, 630
Los Lobos Marinos en las Costas de la Republica Oriental..... 95
Manganese mines denounced..... 630
Mercedes, work on suburbs progressing..... 311
Message of President..... 465
Mines and mining—
Gold mines, Uruguay Consolidated, sold at auction..... 951
Manganese mines denounced..... 630
Minister of Foreign Relations..... 162
Museum, National, of Fine Arts, officially opened..... 630
Palace, Government, decree concerning building of..... 466
Panama-Pacific International Exposition..... 311
Paraguay, Uruguayan delegates to patriotic celebration of..... 163
Pena, Sr. Dr. Carlos María de, receives degree of Doctor of Laws..... 76
Port of Paloma, appropriation requested for enlargement of..... 311
Postage stamps commemorative of Centenary of the Instruction of Artigas. 163
Postal congress, adhesion of Venezuela to resolutions of..... 163
Railway, Pan American, recommenced..... 778
Rivas, Sr. Don Santiago..... 72
Road Congress..... 950
Sanitary Conference, Sixth International..... 778
School of Commerce, National..... 630
Steamship service—
Steamer England arrives at La Paloma..... 630
Steamer Laguna Merim to ply between Brazil and..... 630
Theater, national, under construction..... 465
Treaty, arbitration, signed in Washington..... 778
Twentieth century impression of Uruguay: Its history, people, commerce, industries, and resources..... 728
Tuberculosis, League Against..... 778
Vaccination law..... 629
Weights and measures: Units of length..... 951
VEGETABLE IVORY—TAGUA..... 192
VENEZUELA:
Agronomic station distributes seeds..... 312
Alcohol to be studied in colleges and public schools..... 312
Anniversary, hundredth, of the declaration of independence..... 468
Banana pest..... 468
Bank law of June 26, 1913..... 779
Births, 1913..... 231
Bolivar, Simon, official urn to be made for remains of..... 312
Bolivia, order of Busto del Libertador conferred on President of..... 631
Budget for fiscal year 1913–14..... 467
Cattle industry of the Llanos..... 99
Coat of arms, flags and..... 544
Commerce of Venezuela for 1912..... 281

VENEZUELA—Continued. Page.
Deaths, 1912 631
Debt of Republic, December 31, 1912 780
De Caracas á San Cristobal 580
Declaration of independence 468
Development of, the economic 382
Electric-Light and Power Co. to string cables between La Guiara and Caracas 312
Electrical engineering to be studied in the United States 632
Exports—
Merchandise, first half, 1913 631
Weight and value, 1912 780
Exposition, Paraguayan and Venezuelan, participation in the 841
Factories—
Fibrous plants 468
Paper 632
Stearin 952
Turpentine, mineral 952
Flags and coats of arms 544
Hat manufacturing, School of Arts and Crafts 952
Holidays, national 547
Immigration 468
Imports, weight and value, 1912 780
Iron—
Development, status of 632
Mines, extension of time granted for exploitation of 632
Lactuario de Maracay 870
Lands, public 951
Laws, revising committee of special 632
Lime, extension of time to engage in production of burnt 952
Medicine and Surgery, Institute of, Caracas 631
Merchandise exported from New York to Venezuela, first half, 1913 631
Message of President 164
Mines and mining—
Board of mines established by presidential decree 632
Concession for exploitation of mines, transfer of 468
Copper, district of Bolivar 632
Mining concession granted 780
Reports, monthly, of mining operations 632
Titles to mines 952
Monument to General Simon Bolivar, unveiling of 164
National Congress, officers of Senate and House of Deputies 163
Naturalization law 312, 467
Oils—
"Coco mono," oil from seed of 631
Moriche palm, oil from fruit of 952
Sesame and peanut 632
Paper factory 632
Passengers, incoming and outgoing, registered by maritime ports 468
Peanut oils, concession to manufacture and sell 632
Peru, order of Busto del Libertador conferred on President of 631
Petroleum deposits in district of Colon 312
Population, 1912 631
Protocol between France and Venezuela ratified 468

VENEZUELA—Continued.
Railways— Page.
Carenero Railway & Navigation Co., settlement of claim of..... 468
Statistics, 1912..... 780
Revenue stamps—
Matches, for use in sale of..... 312
One-cent internal revenue stamps, lithographing of..... 952
Roads, construction and repair of..... 468
Rubber: Exploitation of pendare tree prohibited..... 468
Schools—
Arts and Crafts, hat manufacturing..... 952
Statistics, 1912..... 780
Seeds, distribution of samples of..... 952
Sesame oil, concession to manufacture and sell..... 632
South American Alps, the..... 108
Stearin, manufacture of..... 952
Sugar centrals, State of Zulia, establishment of..... 632
Tabrare..... 730
Telegraph lines from Maracaibo to Perija, construction of..... 632
Telephone lines to be constructed..... 164
Temperance, courses in, for colleges and public schools..... 312
Trade-mark laws promulgated August, 1913..... 632, 779
Trail to be constructed between Cariaco and Santa Maria..... 468
Turpentine, mineral, manufacture of..... 952
Urn, official, to be made for remains of Simon Bolivar..... 312
Water, potable, for municipality of Rastrojos..... 312
Wharves at Maracaibo to be repaired..... 164
VENEZUELAN PROGRESS..... 809
WILSON, PRESIDENT, NOTABLE ADDRESS BY..... 684
YOUNG HERO OF THE BATTLE OF LAKE ERIE, A..... 235

INDEX TO ILLUSTRATIONS.

Argentina:
Buenos Aires—
College of Commerce, Buenos Aires University—
"Carlos Pellegrini" school building..... 227
Geographical division..... 227
Library..... 227
Typewriting classroom..... 227
Vestibule, main..... 227
Vestibule on ground floor..... 227
Railway, southern, station..... 166
Casares, Sr. Don Miguel F., Department of Agriculture..... 72
Falls of Iguazu on the Brazilian-Argentine border..... 632
Independence celebration—
Cadets of military college passing in review before presidential stand. 46
Crowd in paddock watching parade..... 47
Infantry of regular army passing President's stand..... 47
Presidential party reviewing parade..... 46
School children singing national anthem..... 48
López y Planes, Sr. Don Vicente (1784–1856)..... 45
National anthem, author of..... 45
Ortiz de Rozas, Sr. Don Juan Manuel..... 690

Argentina—Continued.
Railways— Page.
A quebracho train in northern Argentina 168
Cattle cars in general use on Argentina's railways, one of the types of... 168
Modern railway car..... 168
Southern railway station in Buenos Aires..... 168
"Rivadavia"—
As she appears to-day..... 681
Christening the "Rivadavia" at its launching 683
Launching of the "Rivadavia" at the Fore River Shipbuilding Co., Quincy, Mass., August 26, 1911 682
San Roque Dam, Cordoba Range..... 634
Statue of George Washington in Palermo Park, Buenos Aires, presented by North Americans..... 164
Victorico, Gen. Benjamin 64
Automobiles:
Argentine sportsman, Sr. Horacio Anasagasti, in his car built in Buenos Aires..... 336
Avenue Rio Branco, Rio de Janeiro..... 329
Contesting car..... 334
Machine carrying 5 tons of flour up a steep grade in Buenos Aires..... 331
North American automobiles in Uruguay..... 332, 334
Sand-blast operator at work..... 329, 335
Scenes incident to racing contest in Uruguay..... 339
Street scene in Rio de Janeiro..... 338
Street sprinkler, type of motor used extensively in Rio de Janeiro..... 328
Street scene in Sao Paulo..... 328
"Tilbury," the, conveyance being replaced by automobiles..... 338
Type of machine frequently seen in Uruguay..... 330
Winner of a recent race in Uruguay..... 336
Banquet tendered Dr. Müller by Panama-Pacific Exposition..... 23
Barrett, Hon. John, Special Ambassador Dr. Müller, Secretary Bryan, and other guests at luncheon given by..... 8
Bolivia:
Alancha Cascade, near La Paz..... 637
Chuquiapu thunders along in its mad run to the sea, Obrajes where..... 567
Exhibit at the Universal Exposition of Ghent—
Building representing the Temple of the Sun..... 537
Interior of the Temple of the Sun..... 538
Section of exhibit..... 538
Indians—
Carnival time among the Aymaras..... 564
Types at the market..... 565
La Paz—
Calle Comercio..... 218
Capitol at..... 211
Capitol, scene on the second floor of new..... 213
Capitol, another interior view of new..... 213
General view of..... 210
Plaza Murillo, corner of..... 212
Prado, the..... 217
Street-car service in..... 635
Theater, municipal..... 216

Bolivia—Continued. Page.
Lemoine, M. J. de, chargé d'affaires at Brussels..... 695
Mining scene in Pulacayo, an active..... 169
Obrajes where the Chuquiapu thunders along in its mad run to the sea.... 567
Natives, types of..... 566
Railways—
An active mining scene in Pulacayo..... 170
Tracklaying near Oruro..... 170
Statue of Murillo at La Paz..... 215
Titicaca, Balsas on Lake Titicaca..... 566
Boston Chamber of Commerce tourists:
Arrival in Buenos Aires from Santiago, Chile..... 230
Banquet tendered by business men of Buenos Aires..... 233
Part of delegation embarking on launch to inspect docks of Buenos Aires.. 234
Souvenirs of Bolivia (medals)..... 232
Braddock, Maj. Gen., Rockville, Md., Memorial Tablet unveiled to..... 561
Brazil:
Automobiles—
A new use for an old automobile..... 335
Street scene in Rio de Janeiro..... 338
Street sprinkler, type of motor used extensively in Rio de Janeiro.... 328
Street scene in Sao Paulo..... 328
Campos Salles, Dr. Manuel Ferraz de..... 61
Coffee fazenda near Sao Paulo..... 328
Congress of History, First National, executive committee in charge of..... 366
Costa, Capt. Enrique Adalberto Thedim, of the Minas Geraes..... 28
Dam at Parnahyba, Tiete River, Sao Paulo..... 640
Diagrams: Commerce, 1912..... 738
Espinola, Dr. Manuel José..... 65
Falls of—
Guaira in the Parana River, one of the seven cataracts forming the Great..... 641
Iguazu on the Brazilian-Argentine border..... 632
Itapura, Tieste River, Sao Paulo..... 638
Fonseca, President Marshal Hermes da..... 1
Military College, Rio de Janeiro—
Administration building of..... 504
Cadets..... 502
Cadets passing in review, flag day..... 511
Cadets, reviewing the..... 508
Distinguished visitors..... 506
Dormitory room..... 510
Exterior view of..... 503
Grounds and buildings, interior view of..... 504
Main entrance..... 503
Maneuvers, bicycle, infantry and cavalry..... 507
Mess hall..... 510
United States ambassador at..... 508
Minas Geraes lying in New York Harbor..... 30
Minas Geraes, officers of..... 91
Müller, Dr. Lauro—
Aboard the Minas Geraes during farewell reception given by..... 28
Banquet by Panama-Pacific Exposition..... 23
Convoy of special ambassador..... 30
Cup presented by American Manufacturers' Export Association to.... 16

Brazil—Continued.
Müller, Dr. Lauro—Continued. Page.
Dinner in honor of special ambassador by the Brazilian ambassador to the United States, Dr. da Gama 11
Dinner given by Pan American Society of the United States in honor of. 18
Entertained on San Francisco Bay 32
In doctorate gown, and President Abbott Lawrence Lowell, Harvard University 20
Leaving for the United States 3
Luncheon given by American Manufacturers' Export Association in honor of 12
Planting flag on site of Brazil's pavilion, Panama-Pacific Exposition .. 26
Reviewing United States troops at San Francisco 22
Seeing New York 12
Special mission and party arriving at Bethlehem, Pa 12
Naval officers and midshipmen of training ship "Benjamin Constanti" ... 91
Panama-Pacific International Exposition, flag planting on site of pavilion .. 26
Pires de Andrade, Dr. Gustavo, chief of dental school clinic 222
Railways—
On the way to Corcovado's Umbrella 173
Vanguard of civilization 178
View of a train shed, a building capable of housing hundreds of cars at the same time 189
Rio de Janeiro—
Avenue Rio Branco 329
Terminal, new, of the Tramway, Light & Power Co., Rua Marechal Floriano 642
Sao Paulo, power and light plant of 638
"Tilbury," the, conveyance being replaced by automobile 338
University of Parana at Curytiba, State of Parana, proposed building of the. 716
Vieira de Mello, Dr. B., chief of Medical Service of Schools, Sao Paulo 222
Chile:
Codecido, Sr. Don Bernardino Toro, envoy extraordinary and minister plenipotentiary to Venezuela and Cuba 69
Diagram: Commerce, 1912 881
Falls, Laja 645
Hydroelectric station in the Aconcagua Valley, beginning work on a 640
Morris, Sr. Don Maximo Patrico, consul general to Canada 71
Railway, Arica-La Paz, the terminus of the 175
Rio Calle Calle in southern Chile, a stretch of the 646
River, the Great Aconcagua 647
Santiago, street-car in 650
Varas, Sr. Don Carlos, journalist 696
Colombia:
Acosta de Samper, Sra. Dona Soledad 60
Calderon, Dr. Climaco 688
Cattle on the Llanos 99
Coal seam, near Cali 98
Coal seam, a vertical, near Cali 97
Diagrams: Commerce, 1912 750
Falls, Tequendama 649
Llanos of 100
Railways: At the Juanchito terminal of the Cali tramway 171
River, Bogota, about 4 miles from the Falls of Tequendama 649

Congress of Students, Eighth International: Page.
Argentine delegation 485
Brazilian delegation 485
Chile, delegates from 491
Colombian delegation 487
Cuba, delegates from 487
Dinner given by board of hospitality of the New York Peace Society 507
Guatemala, delegates from 480
Houston Club, University of Pennsylvania 493
Latin-American delegates 481
Officers of 483
Peruvian delegation 489
Porto Rico, delegates from 490
President Wilson's reception, White House, delegates at 497
Reception by Secretary of State, Hon. William J. Bryan, Department of State 495
Speakers and delegates at Latin-American section of 88
Uruguay, delegates from 491
Washington's tomb, Mount Vernon, floral tribute placed by Latin-American students 497
Córdova, Señor Dr. Gonzalo S., new envoy extraordinary and minister plenipotentiary of Ecuador to the United States 253
Costa Rica:
Diagram: Commerce, 1912 272
Ulloa, Dr. Juan J 691
Cotton:
An open boll of Egyptian cotton 678
Triumph cotton 678
Cuba:
Agricultural experiment station at Santiago de Las Vegas—
Cattle ranch 39
Entrance 33
Interior approach and gardens 33
Patches of cultivated lands 37
Planting and irrigation 35
Currier, Rev. Charles Warren, Bishop of Matanzas 70
Desvernine, Sr. Dr. Pablo, envoy extraordinary and minister plenipotentiary to the United States 80
Diagram: Commerce, 1912 901
Margarit, Sr. Don Enrique R., consul general of Paraguay 695
Desvernine, Sr. Dr. Pablo, envoy extraordinary and minister plenipotentiary to the United States 80
Diagrams:
Argentine commerce, 1912 121
Brazil: Commerce, 1912 738
Chile: Commerce, 1912 881
Colombia: Commerce, 1912 750
Costa Rica, commerce of 272
Cuba: Commerce, 1912 901
Dominican Republic: Commerce, 1912 411
Guatemala: Commerce, 1912 586
Haiti: Commerce, 1912 416
Llanos of Venezuela and Colombia 100
Mexican commerce, 1912 425

Diagrams—Continued. Page.
Paraguay: Commerce, 1911 278
Venezuela: Commerce, 1912 284
Dinner in honor of Special Ambassador Müller by Brazilian ambassador to the United States, Dr. da Gama 11
Dinner given in honor of Special Ambassador Müller by Pan American Society 18
Dominican Republic:
Diagram: Commerce, 1912 411
General Receiver's headquarters at Santo Domingo, patio in 865
Henriquez y Carvajal, Sr. Dr. Federico, Chief Justice of the Dominican Republic 534
Jiménez, Sr. Don Enrique, Vice President of the Chamber of Deputies 534
Lovaton, Sr. Lodo. Ramón O., Minister of Foreign Affairs of the Dominican Republic 534
Peynado, Sr. Don Francisco J 533
President José Bordas Valdés 469
Dueñas, Señor Dr. Francisco, new envoy extraordinary and minister plenipotentiary of Salvador to United States 554
Dutch Guiana:
Banama and rubber plantations 819
Bush home 824
Bush negroes, among the, in the far interior 825
Gold in the interior, exploring for 821
Gold washing, primitive 821
Railroad track in 825
Savannah, on the fringe of a 822
Duvivier, M. Ulrick, new envoy extraordinary and minister plenipotentiary of Haiti to the United States 551
Ecuador:
Carbo, Sr. Don. Luis Felipe 63
Córdova, Señor Dr. Gonzalo S., new envoy extraordinary and minister plenipotentiary to the United States 253
Railways—
"Devil's Nose," Guayaquil and Quito railway 182
Strenuous engineering on the Guayaquil and Quito railways 178
Eigenmann, Ph. D., Carl H 784
Ewing, Hon. John, envoy extraordinary and minister plenipotentiary of the United States to Honduras 845
Fishes of South America:
Agmus Lyriformis Eigenmann 790
Bagre, one of the indigenous fishes 789
Cichla ocellaris Bloch and Schneider. The Luchanani 798
Eels—
Legend of the electric eels 786
Mystery of the electric eels 787
First picture of a South American fish ever published 786
Hoplosternum, various species of the 793
Myleus Pacu (Schombrugk) 790
Paecilia vivipara Bloch and Schneider 797
Plate catfish, various species of the 795
Sciadeichthys Proops (Cuvier and Valenciennes) Crucifix fish 792
Serrasalmo Rhonbeus (Linnæus) 790

Page.
Flags and coats of arms:
United States..... 833
Uruguay..... 243
Venezuela..... 545
Gonzales, Hon. William Elliot, envoy extraordinary and minister plenipotentiary of the United States to Cuba..... 260
Guatemala:
Diagram: Commerce, 1912..... 586
Military Academy, Guatemala City, which will honor the Government scholarships awarded in the United States..... 675
Schools—
Practical school for boys, nearing completion, in Guatemala City, to which the Government will admit students..... 676
Practical school for girls, Guatemala City, which will accept the Government scholarships awarded to United States students..... 676
Temple of Minerva, Guatemala City..... 675
Haiti:
Diagram: Commerce, 1912..... 416
Duvivier, M. Ulrick, new envoy extraordinary and minister plenipotentiary of Haiti to the United States..... 551
Port au Prince, Le Theatre Parisiana at..... 721
Statue of Alexandre Pétion, an early President of Haiti, erected at Caracas, Venezuela..... 570
Hale, Hon. Edward J., envoy extraordinary and minister plenipotentiary of the United States to Costa Rica..... 262
Hartman, Hon. Charles S., envoy extraordinary and minister plenipotentiary of the United States to Ecuador..... 556
Henríquez y Carvajal, Sr. Dr. Federico, Chief Justice of the Dominican Republic..... 534
Hitch, Calvin M., assistant chief of the Latin-American Division of the Department of State of the United States..... 709
Honduras:
School, English, Siguatepeque, teachers and students at the 867
Ivory, vegetable—*See* Tagua.
Jefferson, Hon. Benjamin Lafayette, envoy extraordinary and minister plenipotentiary of the United States to Nicaragua..... 361
Jiménez, Sr. Don Enrique, Vice President of the Chamber of Deputies of the Dominican Republic..... 534
Leavell, Hon. William Hayne, envoy extraordinary and minister plenipotentiary of the United States to Guatemala..... 847
Lovaton, Sr. Lcdo, Ramón O., Minister of Foreign Affairs of the Dominican Republic..... 534
Luncheon given by Director General John Barrett—Special Ambassador Müller, Secretary Bryan, and other guests at..... 8
Luncheon given in honor of Dr. Lauro Müller by American Manufacturers' Export Association..... 14
McGoodwin, Hon. Preston B., envoy extraordianry and minister plenipotentiary of the United States to Venezuela..... 702
McMillin, Hon. Benton, envoy extraordinary and minister plenipotentiary of the United States to Peru..... 363
Magellanes, Hernando de..... 341
Maps:
Mexico and Acapulco, facsimile of map in "Herrera"..... 345
Railways of South America..... 172
Route of Prof. Bowman's expedition to the Central Andes, 1913..... 390

Page.
Meléndez, Señor Don Carlos, constitutional President of the Republic Salvador. 312
Menza, Sr. Dr. Carlos A., secretary of the legation of Salvador at Washington... 706
Metcalfe, Hon. Richard L., head of the Department of Civil Administration, Acon, Canal Zone, Isthmus of Panama..... 851
Mexico:
Acapulco, harbor of..... 344
Acapulco, view showing topography..... 345
Diagram: Commerce, 1912..... 425
Mexico and Acapulco, facsimile of a map in "Herrera"..... 343
Mexico City—
Building of Department of Foreign Relations..... 658
Stately reception room of the Department of Foreign Relations..... 660
Mining, as quaintly imagined by writers and artists of 1602..... 346
People's Institute of Piedras Negras, State of Coahuila..... 351
Verdia, Sr. Don Luis Perez, envoy extraordinary and minister plenipotentiary to Guatemala..... 694
Moreira, Dr. M. de, president, American Manufacturers' Export Association... 12
Morgan, Hon. Edwin V., United States ambassador at Rio de Janeiro..... 348
Müller, Dr. Lauro:
Aboard the Minas Geraes during farewell reception given by..... 28
And President Abbott Lawrence Lowell, Harvard University..... 20
Banquet tendered by Panama-Pacific Exposition..... 23
Convoy of special embassador..... 30
Cup presented by American Manufacturers' Export Association to..... 16
Dinner in honor of special ambassador by the Brazilian ambassador to the United States, Dr. da Gama..... 11
Dinner given by Pan American Society of the United States in honor of... 18
Entertained on San Francisco Bay..... 23
Leaving Brazil for the United States..... 3
Luncheon given by American Manufacturers' Export Association in honor of 14
Planting flag on site of Brazil's pavilion, Panama-Pacific Exposition..... 26
Reviewing United States troops at San Francisco..... 22
Seeing New York..... 12
Special ambassador, Secretary Bryan, and other guests at luncheon given by Director General John Barrett..... 8
Special envoy and visiting dignitaries reviewing United States troops at San Francisco..... 22
Special mission and party arriving at Bethlehem, Pa..... 12
O'Rear, Hon. John D., envoy extraordinary and minister plenipotentiary of the United States to Bolivia..... 364
Palace of Peace at The Hague..... 831
Panama:
Agricultural lands..... 470
Jungle, running a line for a railroad through a..... 476
Los Santos, seaside village in..... 471
Mendoza, Dr. Carlos Antonio, ex-President..... 693
Panama City, market boats at wharf..... 471
Parade, a, in the interior of..... 471
Railroad construction in..... 474
Railroad through a jungle, running a line for..... 476
Remon, Sr. Don Nicolas..... 691
Road building in..... 475
School gardening in..... 471

Panama Canal: Page.
Gamboa Dyke, before, during, and after the explosion, which connected the two American continents 576
Gates of the Gatun Locks, testing one of the 389
Gatun, the, first vessel to pass through the Gatun Locks, September 26, 1913. 871
Spillway at Gatun 386
Panama-Pacific International Exposition:
Administration building 319
Banquet tendered Dr. Müller by directors of 23
Bird's-eye view of 314
Court of Sun and Stars—
Column at entrance of 320
Figure ornamenting the 320
Denmark's flag drops from the heavens 324
East court, tower of 325
Festival hall 322
Festive court, façade court 322
Flag, the exposition 314
General view of site 316
Palace of Fine Arts, front elevation of 323
Peristyle inward, looking from the 321
Peristyle, looking through the 320
Service building 322
South American commissioners during visit to Venezuela 855
Triumphal arch 318
Pan American mass: Procession entering St. Patrick's Church for Thanksgiving service 827
Pan American Society of the United States: Dinner given in honor of Special Ambassador Müller 18
Pan American Union, Washington, D. C.:
The approach 861
Annex and Aztec garden 780
Annex, as seen across the blue Aztec garden, from the upper stair landing at the rear of the main building 862
Annex, detail of work in loggia of 863
Curve of the entrance drive 859
Looking out from the terrace 860
Paraguay:
Diagram: Commerce, 1911 278
Falls on the Nacundai River, an affluent of the upper Parana, one of three. 653
Margarit, Sr. Don Enrique R., consul general at Habana, Cuba 695
Railway, Yuty station on the Central 184
Perry, Commodore, at the Battle of Lake Erie 236
Perry, Midshipman Alexander J., sword 237
Peru:
Callao, interurban car at 656
Canal at Chosica—
Preliminary work on the Power Canal 654
Section of the Chosica Power Canal 654
Cuzco—
The Apse of Santo Domingo 375
Gates, one of the city 374

Peru—Continued. Page.
Lake Huacachina, Ica—
General view of..... 802
Approach to..... 807
Baths at..... 804
Grand Hotel, piazza of the..... 807
Leguia, Sr. Don Augusto B, ex-President..... 693
Lima, Calloa electric railway substation at..... 656
Piérola, Gen. Nicolás de..... 62
Railways—
Scene on the Oroya Railroad in..... 186. 650
Scene on the Oroya Railroad, Casapalca smelter in the distance..... 188
Ruins of Tiahuanacu—
Church at..... 520
Doorway, monolithic..... 522
Doorway, section of monolithic..... 523
Doorway, monolithic, of old cemetery..... 525
Hut in modern Tiahuanacu..... 551
Idol, monolithic..... 517
Idol, monolithic, details of..... 519
Idol, monolithic, unearthed..... 528
Kalasasaya Palace—
Pedestal in..... 527
Stairway of..... 515
West wall of..... 516
Stone scaffold..... 530
Walls, remnants of ancient..... 520
Sincuani, at the mark..... 376
Tiahuanacu, hut in modern..... 531
Titicaca, Balsas on Lake..... 566
Urcos, the plaza in..... 378
Yanacota power station—
Building a pipe line at the..... 652
General view of..... 652
Peynado, Sr. Don Francisco J..... 533
Price, Hon. William J., envoy extraordinary and minister plenipotentiary of the United States to Panama..... 699
Railways of South America:
Arica-La Paz, a heavy grade on the..... 179
Construction train and plow..... 176
Map of..... 172
Transandine Railroad, avalanche shed..... 180
Washout during the rainy season..... 176
See Railways, under countries.
Rifle matches, international, Camp Perry, Ohio:
Argentine team in action, a squad of..... 670
Argentine naval team..... 670
Camp Perry, general view of..... 663
Interior of target butt..... 665
International shooting house..... 671
International teams..... 666
Making "movies" of the matches..... 671

Rifle matches, international, Camp Perry, Ohio—Continued. Page.
On the 600-yard firing line 672
Pan American teams 663
Pan American trophy won by the Argentine team 668
Pistol and revolver range 665
Shooting from the standing position 669
Rivers of South America:
A South American scene 781
Final stage of navigation 785
In the depths of the interior 783
See Rivers, under countries.
Roosevelt, Col. Theodore, delivering an address before the Y. M. C. A. at Rio de Janeiro, Brazil 857
Salvador:
Dueñas, Sr. Dr. Francisco, new envoy extraordinary and minister plenipotentiary to the United States 554
Meléndez, Señor Don Carlos, constitutional President 312
Menza, Sr. Dr. Calos A., secretary of the legation of Salvador at Washington. 706
President, constitutional 312
Smith, Hon. Madison R., envoy extraordinary and minister plenipotentiary of the United States to Haiti 558
Students Conference. (*See* Congress of Students, Eighth International.)
Sullivan, Hon. James M., envoy extraordinary and minister plenipotentiary of the United States to the Dominican Republic 843
Tagua—Vegetable ivory:
Button king of the Costers 207
Colombia: Tumaco (preparing ivory nuts for shipment) 203
Ecuador—
A female tagua palm, Esmeraldas 193
A male tagua palm, Esmeraldas 193
Bur, the tagua 195
Ivory nuts at Esmeraldas 197
Loading tagua at Manta 203
Market place (bags of ivory nuts) 201
On a tagua plantation 199
Rafts on which nuts are transported 199
Rafts loaded with nuts, Guayaquil 201
Taguaros 197
Evolution of the button—
Ivory nuts 205
Slices of ivory nuts 205
Button developed in color bath 207
Dye chart through which color is sprayed on 207
Partly turned piece 207
Sprayed with shellac 207
Sprayed, developed, and shellac removed 207
White buttons 207
Thompson, Hon. Thaddeus A., envoy extraordinary and minister plenipotentiary of the United States to Colombia 256
Union Latino-Américaine:
Committee of 370
Medallion General F. Miranda 368

United States:
American Manufacturers' Export Association— Page.
Cup presented to Special Ambassador Müller at luncheon by 16
Luncheon in honor of Dr. Lauor Müller 12
President of 12
Bryan, Hon. William Jennings, Secretary of State—
Special Ambassador Müller, Secretary Bryan, and other guests at luncheon given by Director General John Barrett 8
Butt-Millet Memorial Fountain erected on the White House grounds, Washington, D. C 719
California, Los Angeles—
A business street in 380
Breakwater, 2-mile stone 381
Residence, a typical city 383
Camp Perry, near Toledo, Ohio, where the international rifle matches of 1913 were held 664
Clark, J. Shepherd 67
Coat of arms 835
Ewing, Hon. John, envoy extraordinary and minister plenipotentiary of the United States to Honduras 845
Finch, William Rufus 689
Flag and coat of arms 833
Gonzales, Hon. William Elliott, envoy extraordinary and minister plenipotentiary to Cuba 260
Hale, Hon. Edward J., envoy extraordinary and minister plenipotentiary to Costa Rica 262
Hartman, Hon. Charles S., envoy extraordinary and minister plenipotentiary to Ecuador 556
Hitch, Calvin M., Assistant Chief of the Latin-American Division of the Department of State of the United States 709
Leavell, Hon. William Hayne, envoy extraordinary and minister plenipotentiary of the United States to Guatemala 847
Long, Hon. Boaz W., Chief of Latin-American Division of the Department of State 87
Lowell, President Abbott Lawrence, Harvard University 20
Lummis, Charles F 74
Malone, Hon. Dudley Field—
Aboard the Minas Geraes during farewell reception given by Special Ambassador Müller 28
Delivering address at dedication of Brazilian pavilion, San Francisco 24
Seeing New York 12
Third Assistant Secretary of State 6
Marion, Prof. Henri 692
McGoodwin, Hon. Preston B., envoy extraordinary and minister plenipotentiary to Venezuela 702
McMillin, Hon. Benton, envoy extraordinary and minister plenipotentiary of the United States to Peru 363
Metcalfe, Hon. Richard L., head of the Department of Civil Administration, Ancon, Canal Zone, Isthmus of Panama 851
Mobile—
A shady park in 354
Docks at 353
Moore, Hon. John Bassett, Counselor for the Department of State of the 82

United States—Continued. Page.
Onyx—
Cut in hillside of Cave Creek, Ariz., showing detached masses of corroded 103
Marbles (natural size) 105
Osborne, Hon. John E., First Assistant Secretary of State 84
Price, Hon. William J., envoy extraordinary and minister plenipotentiary of the United States to Panama 699
Red Cross, American National, design suggested for building at Washington, D. C., to be used as headquarters of the 715
Roosevelt, Col. Theodore, delivering an address before the Y. M. C. A. at Rio de Janeiro, Brazil 857
Smith, Hon. Madison R., envoy and minister plenipotentiary to Haiti 559
Smith, Capt. Roy C., of U. S. S. Arkansas 28
Statute, bronze, in memory of Chief Keokuk, leader of the Black Hawk Indians, dedicated October 22, 1913, at Keokuk, Iowa 723
Sullivan, Hon. James M., envoy extraordinary and minister plenipotentiary of the United States to the Dominican Republic 843
Sutton, Warner P 66
Thompson, Hon. Thaddeus A., envoy extraordinary and minister plenipotentiary to Colombia 256
Vick, Hon. Walker W., General Receiver of Dominican Customs, Santo Domingo 712
Wilson, President Woodrow 1
Uruguay:
A typical road scene on the plains of 334
Automobiles—
North American machine 332
North American, contesting car 334
Type of machine frequently seen in 330
Winner of a recent race 336
Coat of arms 242
Flag and coat of arms 243
Pena, Sr. Dr. Carlos María de, envoy extraordinary and minister plenipotentiary to the United States 77
A ranch 335
Railways: United States steam shovel en route for use on Pan American Transcontinental Railway 189
Rivas, Sr. Don Santiago, financier and banker 73
Scenes incident to the racing contest 339
Valdés, Gen. José Bordas, President of the Dominican Republic 469
Venezuela:
Bolivar, harbor of the city of 384
Caracas—
Treasury Building 811
View looking west from Calvario Hill 810
Cattle on the llanos 99, 813
Diagram: Commerce, 1912 284
Encantado Rapids, River Guaire 812
Flags and coats of arms 545
Iron region on the lower Orinoco, a section of the Imataca 816
Iron Ore Co., Canadian-Venezuelan—
Location of 94, 815
Portion of plant 4

Venezuela—Continued. Page.
Llanos of Venezuela and Colombia..... 100
Maiquetia, town of, showing La Guaira in the distance..... 814
Miranda, Gen. F., medallion of..... 368
Railways: Scene on the La Guaira-Caracas..... 190
Statue of Alexandre Pétion, an early President of Haiti, erected at Caracas, in recognition of his services to Venezuela during its struggles for independence..... 570
Statue of Col. Atanasio Girardot in "Paseo Camoruco," dedication of..... 869
Union Latino-Américaine, the committee of the..... 371
Vick, Hon. Walker W., General Receiver of Dominican Customs, Santo Domingo..... 712
Views illustrating "The automobile in South America"..... 328-339
Views illustrating "Commercial convention in Mobile"..... 353-354

O